TECHNICAL MANUAL

INSTRUCTOR UTILIZATION HANDBOOK

ABRAMS
FULL-CREW INTERACTIVE
SIMULATION TRAINER
ARMOR

(AFIST)

TRAINING DEVICE TD 17/162A
17/162B

Subcontract No. IDL-93-001
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PREPARED FOR:

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PREPARED BY:
AFIST Training and Standardization Team
Headquarters, 1st Battalion, 204th Regiment (AR)
5050 S. Junker St., Bldg. 821
Boise, Idaho 83705-8150

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HAZARD AWARENESS NOTICE

1. High Voltage is used in the operation of this equipment. Death on contact may result if personnel fail to observe safety precautions. Be careful not to contact high-voltage connections when installing or maintaining this equipment.

2. To avoid accidental activation of any tank systems, before installing any AFIST components, verify that all hull and turret systems have been powered down and secured as detailed in Volume 1, Chapter 2, Section III of TM 9-2350-264-10-1,2 (M1A1) and TM 9-2350-255-10-1,2 (M1).

3. Remove the wheel chocks and release the parking brake only when preparing to move the tank. Removing the wheel chocks can allow the tank to move, resulting in death or injury to personnel and damage to equipment.

4. Before moving the main gun, ensure that the rear deck is clear of equipment and that personnel on the tank have been alerted.

5. Some of the AFIST components require two or more people to handle. Use enough personnel when handling equipment to avoid personal injury from lifting and damaged equipment resulting from dropping components.

6. The Instructor/Operator Station (IOS) doors are heavy and have sharp edges. Ensure all six doors are closed and secured before attempting to move the IOS. Swinging doors may cause personal injury and damage to equipment.

7. Place cables on the outside of the tank where they will not be stepped on by tank crew members moving around on the tank. Tripping over cables may result in personal injury. Damage to cables and connectors will result from walking on the cables and other rough handling.

8. Activating the EMERGENCY OFF button will not normally affect the simulator's operating system. If the EMERGENCY OFF button is activated while the system is saving training results to the performance database, only those training results will be affected. After restarting the system, check the performance results. If the performance database cannot be accessed or if error messages appear, the performance database has been corrupted. If the database is corrupted, reload the database from backup media. If the database is not corrupted, proceed with training.

9. Exercise care when installing cables with screw-down fasteners. Align connector keys with receptacle keyways before inserting connectors. Do not over tighten as the fasteners are easily damaged.

   Take care to align the pins in plugs and connectors before pushing the connectors together. Damage can result when pins are misaligned and connectors are forced together.

10. The AFIST system contains assemblies and parts that contain Electrostatic Sensitive Devices. These devices can be damaged by Electrostatic Discharge (ESD). Use ESD precautionary procedures when touching, removing or inserting these devices.

11. Commander's Weapons Station (CWS) monitor mount mirrors are easily broken. Be sure to remove the mirrors and place them in protective packing prior to moving the CWS monitor mount.

12. During removal of the components appended to the outside of the tank, take care in handling and passing them down off the tank. This step requires care to ensure the monitors are not damaged.

13. The gunner's manual control handles are not sensed and should not be used. Activating these controls can damage the simulator trainer.

14. When removing mock-ups and sensors, hand each one to another person to place outside the tank until the item can be repacked.

15. When removing simulator components from the tank, make sure to place them in a safe location until they can be repacked.

16. Be especially careful when reconnecting the tank cable connectors which were disconnected to install the AFIST. Ensure that the pins in the connectors are aligned with the holes in the plugs before pushing the connectors together. When reconnecting, ensure that the connection has been securely made and tightened with the knurled retaining ring on the plug. Damage to the tank's components can occur if the connections are not properly made.

17. Returning to the AFIST Main Menu is the only proper way to end a training session. This ensures that all the computer files related to trainer operation or crew records management are closed properly, and the crew records are backed up. Shutting down the system any other way means running the risk of losing information that cannot be recovered.

18. Once a print request is made, do not interrupt or cancel it. Using any method to interrupt or cancel a processing print request causes irretrievable loss of the current exercise data.

PREFACE

The Instructor Utilization Handbook (IUH) for the Abrams Full-crew Interactive Simulation Trainer - Armor (AFIST), Training Device TD 17/162A, is designed to aid Instructor/Operators (I/Os) in effective use of the AFIST, Training Device TD 17/162A and 17/162B. It is designed to be used in conjunction with TM 9-6920-716-10, AFIST Operator's Manual.

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HOW TO USE THIS DOCUMENT

This handbook is for familiarizing and training Instructor/Operators (I/Os) on the Abrams Full-crew Interactive Simulation Trainer - Armor (AFIST). It is designed to be used for training with a complete AFIST, Training Device TD 17/162A and 17/162B, appended to a powerless, stationary, sheltered M1/M1A1 tank, and in conjunction with the AFIST Operator's Manual.

Use this handbook as a training system administrator's guide to aid in operating and achieving full utilization of the AFIST training system during crew training. It is a guide for integrating the simulation trainer into unit training and shows the I/O how to conduct and manage training to most effectively use the AFIST.

Refer to the AFIST Operator's Manual to become familiar with system equipment and software operation prior to training. This knowledge will help actual training sessions to be conducted in an orderly, timely fashion. Refer to this handbook to learn how to use AFIST to plan, conduct, and review training. This knowledge will help crews achieve their maximum potential with AFIST.

Refer to the appendixes in this handbook for specifics on I/O learning objectives, gunnery exercise tasks and training scripts, and additional reference materials.

Each chapter begins on a right-hand page with the page number 1. Page numbers, figures, and tables are numbered consecutively within each chapter. Page, figure, and tables numbers are two-part numerals separated by a hyphen. The first part is the chapter number. The second part is the order within the chapter. For example:

2-17	Chapter 2, page 17
Table 2-17	Chapter 2, table 17
Figure 2-17	Chapter 2, figure 17

CHAPTER 1

AFIST GENERAL DESCRIPTION

1.1 PERFORMANCE CHARACTERISTICS.

AFIST is a training device designed to support individual and full-crew tactical gunnery skills training in an M1/M1A1 tank. AFIST is portable and designed to be appended to a stationary, powerless (battery disconnected) M1/M1A1 tank of the using unit inside a training facility. All crew members (Tank Commander (TC), Gunner, Driver, and Loader) participate in the gunnery tasks. The system combines computer-generated sounds and images with input from sensors mounted on tank controls at each crew station, allowing crew members to train at their own stations. The trainer provides the crew an interactive simulation in a wide variety of tasks from the tank gunnery tables. Training tasks involve simulated travel over terrain and engagement of enemy forces.
The training is managed and continuously monitored by an Instructor/Operator (I/O) at an external Instructor/Operator Station (IOS). The I/O conducts crew training, monitors crew performance, and provides comprehensive After Action Reviews (AARs).

1.2 AFIST LIMITATIONS.

AFIST is a low-cost, easy-to-use tank gunnery simulator trainer which provides full-crew tank gunnery training. The simulator trainer is not intended to replace live-fire training, but to complement and enhance live-fire tank gunnery training. It will better prepare tank crews to benefit from range training. When used to build crew proficiency prior to live-fire exercises, AFIST can help make a firing unit's range time more effective and more productive.

1.2.1 Recommended Uses. The following are recommended uses for AFIST.

a. Train and test crews in increasingly difficult training tasks.

b. Perform diagnostics to gauge crew proficiency at any point during the unit gunnery training cycle.

c. Measure progress in crew proficiency, as demonstrated on training tasks and Tank Tables.

d. Facilitate remedial training for crews.

e. Facilitate crew composition decisions.

1.2.2 What AFIST Does Not Do. The following are training requirements that the AFIST is not intended to accomplish.

a. Substitute for the hands-on training required to prepare for the Tank Crew Gunnery Skills Test (TCGST).

b. Provide training on the basic individual procedural skills which can be trained "dry" in a stationary tank.

c. Provide training for basic crew duties which can be trained without simulated engagements, such as prepare-to-fire checks and boresight procedures.

1.2.3 Crew Position Characteristics. Each crew member trains at his assigned crew position, using the controls and indicators that are used during the normal operation of the tank. A combination of actual tank controls and facades (replicas) is used. In some areas, a facade of a device in the turret is attached to the tank when an actual indicator or control cannot be used. Simulator cables are attached to the controls and facades. The simulator can then sense the control inputs made by the crew member during the performance of a simulated task.

1.2.4 What the Crew Sees and Hears.

1.2.4.1 What the Crew Sees. The TC, Gunner, and Driver observe day and night European or desert scenery through their sights and vision blocks. These scenes change as the tank drives over the terrain relative to tank changes in direction, as the TC and gunner traverse the turret, and as the TC traverses the Commander Weapon Station (CWS). Crew members observe a variety of threat and friendly tracked and wheeled vehicles, both stationary

and moving; appropriate dust trails accompany moving vehicles. The crew also can see and engage threat helicopters and troops.

When a threat vehicle or troops fire on the own-tank, the crew sees the flash of the weapon fired. When the own-tank engages and hits a target with the main gun, the crew observes the flash of the round striking the target. Based upon where the round strikes the threat vehicle, either a catastrophic or a mobility kill is achieved. A catastrophic kill results in target destruction and burning. If the target had been moving, it stops and burns. If a mobility kill is achieved, the target stops moving but is still able to fire. If the target is missed, the crew can observe the strike of the round in the dirt.

When crew members fire the coaxial machine gun, they can see the tracers and strikes of the rounds in the dirt. When a soft-skinned wheeled vehicle is hit by machine-gun fire, the vehicle burns. Moving soft-skinned vehicles stop moving and burn when hit by machine-gun fire.

When a threat weapon fires on the own-tank, the crew can see the muzzle blast. If exercise time expires before the threat vehicle is destroyed or if the crew commits a Critical error, the own-tank receives a simulated hit and the crew's monitor screens turn black, representing destruction of own-tank.

1.2.4.2 <u>What the Crew Hears</u>. The crew hears normal tank operational sounds through the tank intercommunications system. These sounds include engine sounds with appropriate variations in response to the Driver's input, Thermal Imaging System (TIS) compressor, ammo door opening and closing, breechblock closing, main gun firing, coaxial firing, hydraulics from turret movement, road noise, magnetic brake for turret, and the cartridge stub base hitting the stub base deflector and the turret floor after the main gun is fired.

1. SIMULATED TANK MALFUNCTIONS /FAILURES.

The AFIST simulates the following malfunctions affecting the Fire Control System:

    a.   Stabilization failure.

    b.   LRF failure.

    c.   Ballistic computer and LRF failure.

Selected driving errors committed by the Driver cause the AFIST to simulate tank transmission damage. When this occurs, the hull remains fixed in place. The crew can continue to employ the weapons system, but cannot move the tank.

The tank crew can simulate the loss of the Gunner and conduct three-man crew engagements by having the TC acquire and engage targets from the TC's station.

CHAPTER 2

AFIST COMPONENTS CAPABLE OF

MANAGING INSTRUCTION

2.1 TRAINING EXERCISE MATRIX AND TASK PROGRESSION.

AFIST allows crews to advance at their own rates by providing six groups of training exercises. Each group contains related exercises and represents a general training skill level. Difficulty increases from Group I through VIA and VIB. Crews must successfully complete Evaluation exercises in one exercise group before AFIST allows them to progress to the next higher exercise group. Within each group, three progressively advanced exercise modes are available.

In Orientation mode, individual tank gunnery tasks run for 3 minutes to familiarize the crew to the type of exercise. The Instructor/Operator (I/O) can use Orientation exercises to train the crew on tank gunnery basics at the individual crew stations and on crew coordination.

When the crew has mastered the basic duties at each crew station using AFIST and is prepared to train at their actual tank-skill level, the I/O can move to Training exercises within the same exercise group. In this mode, individual gunnery tasks run from 50 to 65 seconds, permitting development of techniques and accuracy. When a training exercise is selected, the AFIST runs a randomly selected task within that exercise. Within a group, the I/O can select any training exercise. However, for a balanced variety of offensive and defensive training, the I/O should advance through the matrix in numerical progression.

When the crew successfully completes Training exercises in one group, the I/O can determine the crew is ready for Evaluation exercises. Evaluation tasks are unique, with time standards comparable to those in FM 17-12-2. When an Evaluation exercise is selected, AFIST runs tasks in that exercise in numerical sequence. This ensures that all evaluated tank crews are graded to the same standard.

Group I through V Evaluation exercises use gunnery tasks presented in the same one-task-at-a-time procedure as training exercises. Group VIA and VIB Evaluation exercises are "linked-task" exercises, in which consecutive tasks are presented in unbroken sequence, just as they would be presented on an actual tank range. These linked-task exercises replicate Tank Tables VIIIA and VIIIB. In Groups I through III and Group V, a crew must successfully complete four of the six tasks presented in an Evaluation exercise to progress to the next group level. Group IVA, IVB, VIA, and VIB Evaluation exercises are graded to FM 17-12-1 standards.

2.2 SCORING.

During the simulation, the computer records the engagement start time, time target is fully exposed, time round(s) fired, target hits, reticle aim, and errors committed by the crew. The I/O also records crew duty errors during the simulation using the keyboard function keys. AFIST compiles and compares this information to the task requirements for a score. AFIST then posts this score to the Exercise Summary Critique screen, which is shown on the Instructor/Operator Station (IOS) monitor and can be printed.

2.2.1 Crew Errors. For each task, AFIST deducts crew duties penalty points for each error. (Refer to Appendix B for a listing of the number of points deducted for each crew duty error.) For Group I through VI Training tasks and Group I, II, III, and V Evaluation tasks, the crew begins each task with a total target score of 100. If less than 30 points are deducted on a successful engagement (total score of 70 points or higher), and all targets are killed within the allotted time, AFIST recommends a Qualified. If crew errors total more than 30 points (total score of less than 70 points) or all targets are not killed within the allotted time, AFIST recommends an Unqualified.

AFIST also records crew errors for which point values are not assigned. (Refer to Appendix B for a list of these I/O Critique Messages.) AFIST presents all crew errors and I/O Critique Messages during the end-of-task critique. The effect of crew duty errors may or may not affect the overall crew rating. Using this information, the I/O can change a Qualified rating recommended by the system to an Unqualified. However, the I/O cannot change a system-recommended Unqualified to a Qualified.

2.2.2 <u>Group IVA, IVB, VIA, and VIB Evaluation Exercise Scores</u>. AFIST scores Group IVA, IVB, VIA, and VIB Evaluation tasks according to FM 17-12-1, 2 Tank Table IV and VIII point calculation sheets. In these tasks, the crew's target score depends on how well the crew performs to these tank table standards. The system then deducts crew duties penalty points, according to the table in Appendix B, from the target score. If the remaining score is 70 or above and all targets are killed within the allotted time, AFIST recommends a Qualified rating. A score of less than 70 or not killing all targets within the allotted time earns an Unqualified rating for the task. As with the Training tasks and Evaluation tasks in the other exercise groups, the I/O can change a Qualified rating to Unqualified based on his observations.

The total of all Group IV or Group VI task scores along with the Qualified/Unqualified rating of each task within the group determine crew group ratings, as follows:

a. Unqualified. 0 – 699 points or less than seven Qualified tasks.

b. Qualified. 700 – 799 points and seven or more Qualified tasks.

c. Superior. 800 – 899 points and seven or more Qualified tasks.

d. Distinguished. 900 – 1000 points and seven or more Qualified tasks.

NOTE

For scoring purposes, Groups VIA and VIB are considered one exercise group, and Groups IVA and IVB are considered one exercise group.

2.2.3 <u>Ammunition and Weapon Usage</u>. The crew must use the correct weapon and ammunition to destroy each type of target. When the crew hits a target, AFIST records either a kill (correct ammunition used) or an error (incorrect ammunition used). (Refer to Appendix B for the number of points deducted for crew duty errors.) However, if the crew hits the target with incorrect ammunition that was loaded by the crew when no target was active (battlecarry round), AFIST records a kill. All other hits with incorrect ammunition are errors. Table 2-1 lists the results of each round-target combination.

Table 2-1. Ammunition and Weapon Usage

AMMUNITION	TARGET					
	T-72	BMP	BRDM	ZSU	Infantry	HIND
SABOT	Kill	Kill w/Error	Kill w/Error	Kill w/Error	Error	Kill
Battlecarry SABOT	Kill	Kill	Kill	Kill	Error	Kill
HEAT	Kill w/Error	Kill	Kill	Kill	Kill w/Error	Kill w/Error
Battlecarry HEAT	Kill	Kill	Kill	Kill	Kill w/Error	Kill
COAX	Error	Error	Error	Error	Kill	Error

2.3 KILL PLATES.

When the crew hits a vehicle target with the correct ammunition, AFIST records either a Catastrophic Kill or a Mobility Kill. The type of kill recorded depends on where the target is hit. For T-72, BMP, BRDM, ZSU, and HIND targets, the crew must hit a zone on the target that would normally destroy the target's fire control or automotive system. Figures 2-1 through 2-5 illustrate these zones (kill plates). A hit anywhere on a HIND target results in a Catastrophic Kill. To get a Catastrophic Kill of an infantry target, the crew must hit one man on the four-man target. Catastrophic Kills completely incapacitate the targets, rendering them unable to maneuver or fire weapons. The crew sees targets hit with Catastrophic Kills burn on-screen to represent complete destruction. AFIST recognizes a Catastrophic Kill as a successful target engagement and scores a kill for the crew.

A Mobility kill renders the vehicle target immobile, but still capable of firing its weapons. AFIST does not score Mobility kills as successful engagements or score them as kills for the crew.

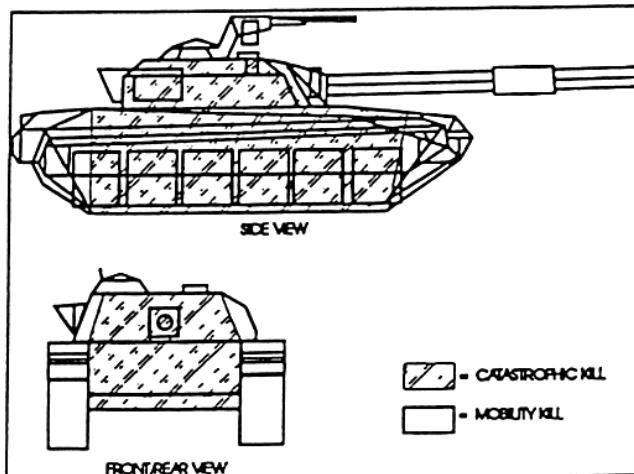**Figure 2-3. BMP Target Kill Plate**

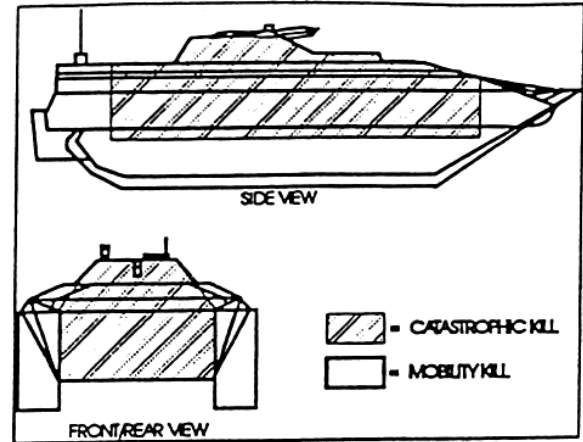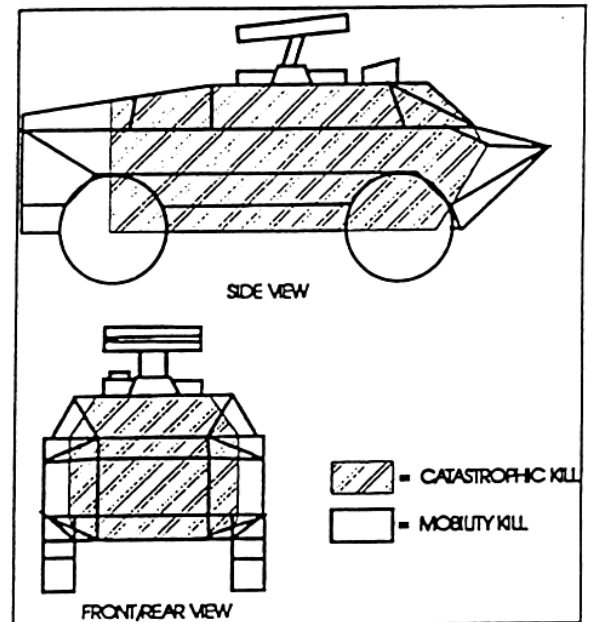**Figure 2-2. T-72 Target Kill Plate**

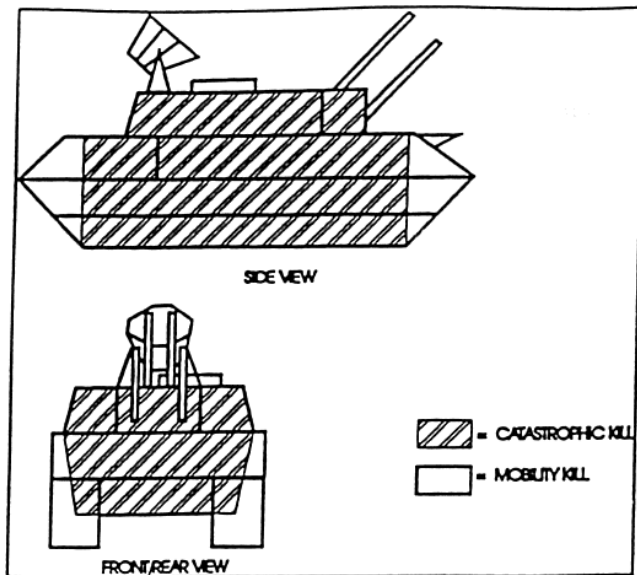**Figure 2-1. BRDM Target Kill Plate**

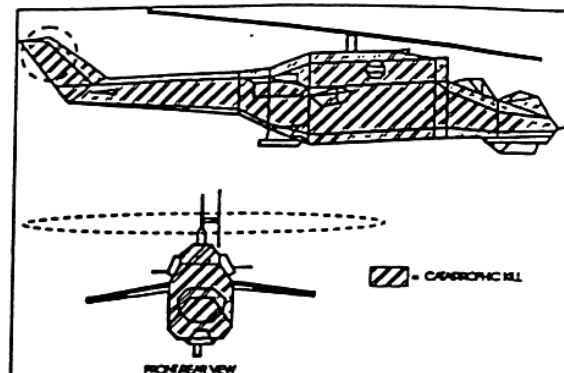**Figure 2-4. ZSU Target Kill Plate**

Figure 2-5. HIND Target Kill Plate

2.4 MODIFICATIONS TO EXERCISES.

AFIST does not allow exercises to be modified

CHAPTER 3

USING AFIST TO MANAGE INSTRUCTION

3.1 INSTRUCTOR/OPERATOR (I/O) PREPARATION FOR TRAINING.

To make optimum use of the training system, the I/O must select the proper exercises and level of training for the crew. This is a two-phase process.

The first phase involves analyzing the crew's training history to determine the crew's proficiency level and problem areas. To do this, the I/O reviews the Crew Records to verify the vehicle identification and crew names, noting when the crew last passed an Evaluation exercise. The I/O reviews the crew performance summary, as well as any other hard copy training records. If the crew has trained on the AFIST previously, the I/O can review on-screen performance records or generate hard copy records at the IOS (in IOS ONLY mode).

Using these records, the I/O identifies general problems the crew may have experienced during training. The I/O takes special note of any trends affecting crew performance indicated in the crew performance summary. The I/O notes the number of times the crew ran each exercise to determine problem exercises. He examines each of these exercises to identify possible causes of the crew's problems.

Once he has determined the crew proficiency level and problem areas, the I/O organizes the records to present to the crew. The recommended method is to lay out all material on a briefing table in the crew briefing area for the crew to review as the I/O presents the prebrief.

During the second phase of selection, the I/O plans training tailored to the needs of that crew. The I/O must first consider the unit's overall training requirements as directed by the Training Manager. The I/O also must consider the interval since the crew last trained on the AFIST and the crew's group-level ratings. The I/O uses the crew information gained from the analysis phase to consider the crew's unique training needs and to determine the training objectives for this session. After considering the crew's past performance or present state of readiness, the I/O could select an exercise other than the next progressive one in the AFIST exercise matrix. AFIST does not allow the I/O to select training above the crew's current training level. However, if the crew had problems in a specific skill area, the I/O could run tasks from earlier exercises. Based upon the performance analysis, the I/O also can elect to continue training at the current group level, advance to Evaluation exercises, or give the crew an Orientation

exercise as a warm-up. Refer to Appendix C for the AFIST Gunnery Exercise Matrix and Exercise Summary Outlines.

Regardless of the I/O's plans for the session, the primary concern is maximizing training time for the crew.

3.2 CONDUCT OF TRAINING.

3.2.1 Crew Prebrief. After completing training preparation, the I/O uses the analysis to discuss areas of strengths and weaknesses with the crew. The I/O should state the training objectives for this session, then address strengths and weakness in crew coordination, emphasize areas of crew difficulty, and recommend corrective action. The I/O should mention the last time the crew trained with the AFIST, review crew performance, and answer any questions the crew may have. The I/O should keep this prebrief short while discussing these main points.

The I/O should stress applicable safety measures including smoking prohibition, wearing CVC helmets, evacuation procedures. The I/O should caution the crew not to practice dangerous habits (for instance, failing to put the weapon system on SAFE between engagements, placing feet or arms on or under the main gun, etc.).

3.2.2 Actions Before Running the First Training Exercise. After the prebrief, the I/O directs the crew to enter the tank and prepare for training. The I/O initiates the session as outlined in the AFIST Operator's Manual and conducts a communications check with the crew. The I/O then proceeds with the training session, as outlined during the prebrief.

If the I/O decided to run a warm-up exercise, he selects the Orientation exercise mode. Once exercise begins, the I/O freezes the exercise, reads the exercise script from Appendix C to the crew, then unfreezes the exercise. The crew must ensure all switches are set correctly on the tank prior to the task initiation.

When a problem is detected during the Orientation exercise, the I/O freezes the exercise for immediate critique. After conducting the critique, the I/O unfreezes the exercise and continues until the exercise completes. The I/O then critiques the crew on overall exercise performance.

Once the I/O is satisfied the crew is ready, he selects and runs actual training exercises. As stated previously, the I/O has the option of selecting exercises according to the crew's specific needs. This option gives the I/O the ability to allow the crew to continue training at its own pace. However, the I/O can select only those exercises at or below the crew's current exercise group level. Crews must successfully complete Evaluation exercises in one exercise group before AFIST allows them to progress to the next higher exercise group. (Refer to Chapter 2 for exercise task progression.) If the I/O attempts to select an exercise above the crew's current group level, the computer will not run the exercise. Although the I/O can select any exercise within the crew's current exercise group level, exercise selection should follow the numerical sequence.

3.2.3 Task Execution. Once the I/O selects a training exercise, he freezes the task prior to execution, then briefs the crew on the conditions and standard being trained and on any malfunctions, degraded conditions, or special environmental conditions being simulated in the task. Appendix C contains Gunnery Exercise Scripts used for these briefings.

After completing the briefing and answering any questions the crew may have, the I/O unfreezes the task. The I/O monitors crew performance during the task and provides assistance in response to commands from the Tank Commander (TC) and to crew actions. The I/O communicates with the tank crew over the tank intercom system using the headset and the speaker on the Instructor/Operator Station (IOS). During the simulation, the I/O observes crew performance on the task on the two IOS monitors:

a. The right monitor continuously displays the Gunner's view (active sight picture).

b. The I/O can switch between two displays on the left monitor at any time during the simulation using the MONITOR MODE SELECT switch.

(1) With the MONITOR MODE SELECT switch in MENU, the left monitor contains the Real-Time Display screen, shown in Figure 3-1. This screen provides a current report on the task, the conditions and standards being simulated, the crew in training, the mode, the total elapsed time, and the time since target exposure. This screen also provides a report on individual targets in the task, which crew member engaged the target(s), and the results of the engagement. In addition, the Real-Time Display screen also portrays reading of the switches that are sensed at each crew station. This reading gives the I/O a visual cue of each crew member's actions. Finally, the ORIENTATIONS diagram on the screen portrays the bearing of the tank hull, turret, and Commander's Weapon Station (CWS) relative to an arc within which the targets are located. This orientation changes with tank movement.

(2) With the MONITOR MODE SELECT switch in TC/DRIVER, the I/O can monitor the Tank Commander's (TC's) and Driver's views of the tactical scene on a split screen on the left monitor.

Figure 3-1. Real-Time Display Screen

During the task, AFIST records errors committed by the crew and compiles them for scoring. The I/O uses the IOS keyboard to record errors that are inhibiting crew performance, but are undetected by the system. (Refer to Appendix B for a listing of logged crew errors.) The I/O can coach a crew member to correct the error immediately so that the crew can still engage the target, or allow the crew to fail this task.

When the I/O notes errors, he should immediately point out the area needing improvement so the crew can apply corrective action. This prevents negative training habits and avoids wasting training time. An example of a task exercise sequence is shown in Figure 3-2.

I/O SETS UP EXERCISE

START → I/O SELECTS CREW AND REVIEWS PERFORMANCE HISTORY → I/O BRIEFS CREW

TRAINING OBJECTIVES, SAFETY, TRAINING PROCEDURES

RUN UPGRADED CREW ORIENTATION EXERCISE

SOUND AND VISUAL DEMONSTRATION

NO

YES → CREW VIEWS EXERCISE

TC READIES CREW FOR TRAINING

CREW PREPARATION

I/O SELECTS LEVEL AND TASK

6 GROUPS TRAINING EXERCISES

6 GROUPS EVALUATION EXERCISES

I/O BRIEFS CREW ON SELECTED EXERCISES

TASK/ CONDITIONS AND STANDARDS

CREW PERFORMS EXERCISE

DRIVER MOVES OUT, TARGETS ENGAGED → EXERCISE CONTINUES → EXERCISE ENDS

COMPUTER SCORES TASK, PROVIDES RETICLE AIM ERROR, SAVES DATA TO DATABASE

CONDUCT AFTER-TASK CRITIQUE

I/O INITIATES EXERCISE → FREEZE

NO

YES

I/O SELECTS

REPEAT

UNFREEZE

REPLAY

TERMINATE/ EXIT

YES

I/O FEEDBACK ON CREW PERFORMANCE

CONDUCT AAR → CONTINUE TRAINING → NO → TERMINATE

DEBRIEF CREW

NEW CREW

NO

YES

CONTINUE TRAINING

SAME CREW

YES

Figure 3-2. Example Task Exercise Sequence

3.2.4 Task Interruption and Termination. The I/O has the ability to freeze tasks at any point in the training simulation. While the task is frozen, the I/O can coach a crew on difficulties it may be having with the task or offer pointers on what is coming in the task. To freeze a task, the I/O presses the Shift-F1 keys on the IOS keyboard. Once a task is frozen, the I/O has the following options:

a. REPLAY the task up to that point by pressing the F7 key. The system replays the task and the crew's actions, allowing the I/O to point out crew errors as they are being made.

b. REPEAT the task from the beginning by pressing the F8 key. The system restarts the task, allowing the crew another opportunity to complete the task successfully.

c. TERMINATE the task by pressing the F10 key. The system ends the task without saving any performance data to the database. Terminating a task will return I/O to Main Screen Menu without displaying the Exercise Critique Summary Screen.

d. UNFREEZE the task at the point it was frozen by pressing the Shift-F1 keys again. The system continues the task at the point it was frozen.

e. EXIT task by pressing the Shift-F6 keys. The system ends the task, saves performance data to the database, and displays the Exercise Critique Summary Screen. Exiting a successfully completed task conserves training time and allows the I/O to proceed with training.

If the I/O does not manually terminate or exit a task that has started running, the task will run until the end of its allotted time or until the tank is destroyed. If a crew has not acquired a target, the I/O may elect to either let the exercise run, exit the task, or terminate it. The I/O then has the opportunity to coach the crew and to present the same engagement again.

3.2.5 Typical Training Exercise Scenario. The following depicts the sequence of I/O actions during a typical AFIST Training task.

a. Select an exercise

b. Freeze the task prior to execution, and brief the crew using the Gunnery Exercise Script for the selected exercise, and answer crew questions.

c. Unfreeze the task after ensuring the crew

understands the instructions. If a videotape recorder is being used, start the machine. Be prepared to take notes. Scan the Real-Time Display Screen on the left monitor.

d. Ensure that the crew performs the following crew duties:

(1) Assume appropriate Battlecarry posture.

(2) Crew Report

(3) TC assigns sector limits.

e. Check the Real-Time Display Screen to determine the following:

(4) Time remaining to target appearance, target range and type.

(5) TC has reset the Manual Range Battle Sgt

(6) If all switch positions are correct.

(7) Gunner is scanning assigned sector

f. Monitor for proper fire command.

g. Check the Orientation diagram on the Real-Time Display Screen to ensure the target has appeared in the TC's field of view. If the targets appear out of sector, be prepared to prompt the crew towards the target area (Target Acquisition Report).

h. Upon hearing the TC's fire command Scan the Real-Time Display Screen to determine that:

(1) If the TC is laying the gun on or near the target.

(2) Gunner has changed to 10X and is looking through the appropriate sight.

(3) Gunner/TC has lased to the target and that the range is correct.

i. Monitor the Gunner's view to determine that the Gunner switches to the GAS and to ensure the main gun is clear of the berm.(Defensive)

j. Ensure the Gunner/TC are using appropriate gunnery techniques.

k. Monitor for correct subsequent fire command and/or termination of engagement.

3 3 AFTER EXERCISE

3.3.1 End-of-Task Critique   Upon completion of each task or linked-task exercise, the I/O provides the crew with a brief performance critique.   Using the Exercise Critique Summary Screen, the I/O informs the crew of the score and the computer-recommended rating for the task   If the computer recommends a Qualified rating, the I/O can either concur or change the rating.   To review crew performance of the task in more detail, the I/O can choose to view the following reports:

   a   Logged Errors. Provides a summary of the crew errors logged during the simulation.

   b   Rounds Fired. Provides a summary of the rounds fired during the simulation

   c   Shot Pattern. Provides a summary of the reticle lay of the rounds fired during the task

   d   Targets   Provides a summary of the targets engaged during the simulation

   e   Exercise Summary   Provides a summary of crew performance on each task in the linked-task exercise

The I/O uses these screens to inform the crew of their good and bad reticle lays for main gun rounds. The I/O should make a printout of screens needing further discussion during the crew debrief. The I/O should also discuss the number of rounds fired, number of hits, kills, and targets not engaged. The I/O uses the notes taken during the simulation run to reinforce the information on the after-task critique screens.

The critique also should include discussion on the task time, specifically addressing time standards and the crew's time for target identification, time to fire, time to kill. The I/O should inform the crew of the total errors for the task and the errors by situation.

As required, the I/O should use the task Replay option to reinforce major teaching points. The I/O should always refer to any task notes to further explain the crew's performance and highlight crew strengths.

For subsequent tasks, the I/O repeats the task execution and after-task critique procedures   The I/O's ability to monitor and effectively critique crew performance is one of the most essential elements of the AFIST training system   The I/O must be conscientious and alert throughout the course of each training session   The benefit the crew receives from the training session depends mainly on the I/O

Group IVA, IVB, VIA, and VIB Evaluation exercises are scored differently than other AFIST exercises.   These exercises are scored in accordance with FM 17-12-1   The I/O must be familiar with these scoring standards.

3 3 2   After Action Reviews (AARs).   After the crew completes the last exercise in the training session and has received its critique, the I/O directs the crew to exit the tank.   The I/O should select and print the unit and crew performance reports for the crew, then gather these and all other printouts made during the training session for discussion and begins AAR preparation.

3.3.2.1   Purpose of the AAR.   An AAR is a review of training that allows crew members, leaders, and units to discover for themselves what happened during the training and why it happened.   AARs are not critiques because they do not determine success or failure.   Rather, AARs are professional discussions of training events.   Leaders and evaluators use AARs to tell a story about what was planned, what happened during the training, why it happened, and what could have been done differently to improve performance.   AARs should do the following:

   a   Reinforce lessons learned as a result of a training exercise.

   b   Increase crew and leader interest and motivation

   c   Identify and analyze both strengths and weaknesses.

   d   Involve all participants.

   e   Guide toward achieving learning objectives

   f   Link lessons learned to subsequent training.

3.3.2.2   Structure of the AAR.   AARs conducted after AFIST training sessions are informal reviews.   Although informal, they involve a prescribed number of participants and follow a general sequence.   The I/O conducts the AAR   Participants in the AAR include the I/O and the full tank crew   Observers may include members of the chain of command or other tank crews; however, these observers do not participate in the AAR   AARs are conducted at the end of a training session

The I/O plans, prepares, and conducts the AAR   In this role, the I/O is responsible for reviewing the completed training tasks, reinforcing positive areas of performance, and helping the crew identify areas for improvement   As the facilitator of the AAR, the I/O influences the benefit the tank crew derives from this training.

The general sequence to use in planning, preparing, and conducting the AAR is shown in Table 3-1

Table 3-1. AAR Planning and Execution Sequence

Sequence	Action Executed
Plan	• Establish objectives for the AAR. • Review the training and evaluation plan • Identify the participants. • Select training aids. • Draft an AAR plan. • Review the unit (crew) training objectives and plans.
Prepare	• Review the training objectives. • Observe the training. • Develop a discussion outline. • Organize and rehearse.
Conduct	• Restate the session's training objectives. • Generate discussions • Orient on training objectives. • Seek maximum participation. • Continually summarize to emphasize key learning points

To prepare for the AAR, the I/O should match the printouts in sets according to task. The I/O should follow the same analysis procedure as in training preparation, except the Crew Record does not have to be checked.

The I/O usually begins the AAR by restating the event's training objectives in terms of the tasks conducted during training. The I/O generates discussion among the crew on actions taken, keeping the discussion oriented on the training objectives. The I/O involves the crew in summarizing events to emphasize key learning points. During the AAR, the I/O will have the crew identify positive areas of performance and identify areas for future training.

3.3.2.3 Leading the Discussion The I/O guides discussion during the AAR in a logical sequence focusing on the training objectives. The most difficult task for the I/O is to avoid turning the discussion into a critique or lecture. The I/O can avoid this by entering the discussion only when necessary. The I/O should only ask questions and must limit his input to sustaining the AAR, guiding the discussion back to the right track, or bringing out new points.

The following techniques will help the I/O guide the discussion:

a. Ask open-ended, leading, and thought-provoking questions that focus on the training objectives.

b. Have the crew members describe what happened in their own words and from their own point of view.

c. Use the after-task printouts to relate tactical events to subsequent results.

d. Explore alternative courses of action that could have been more effective. (How could you have done it better?)

e. Avoid detailed examination of events not directly related to training objectives unless the TC wants to go into greater detail.

During the discussion, if the TC made a mistake during a particular task, the I/O should ask why a particular course of action was chosen. This discussion must be frank, but not embarrassing to the TC. By emphasizing a positive point, the crew can learn a lesson without losing confidence in the TC.

3.3.2.4 Crew Participation During the AAR Crew members are active participants in the AAR and contribute much of the information used in the AAR. The I/O guides discussion during the AAR in a logical sequence focusing on the training objectives. The I/O involves the crew members by questioning them about certain events, and allows them to describe what they did and why. In order to derive maximum benefit from AFIST training, all crew members must discuss their actions and explain why they took these actions.

3.3.2.5 Summarizing the AAR. By the end of the AAR, the crew members must clearly understand what was good, bad, and average about their performances. When summarizing the crew's performance, the I/O should have the crew members accurately grade their own performances. Self-rendered grading is more meaningful than a judgment rendered by the I/O. If, however, the I/O cannot elicit an accurate self-evaluation by the crew, he may need to clearly tell the crew his findings.

3.3.2.6 Record Retention Once the training session and AAR are completed, the I/O places all the printouts from the training session on file for future reference. This ensures that the most current information available is used to prepare for the crew's next training session.

3.4 SECONDARY OPERATING MODE

After reviewing crew performance, the I/O may prescribe additional training in the Secondary Operating Mode. (Refer to TM 9-6920-716-10, AFIST Operator's Manual, for procedures to activate the Secondary Operating Mode.) In this mode the crew can drill on training exercises under the TC's control. Because the I/O does not need to be present, the crew can train on its own, outside the scheduled unit tank gunnery training program. Thus, crews can receive supplemental training they might not otherwise receive. These training drills cannot affect crew performance records because the results of tasks run under the TC's control are not saved to the database. All exercises available to the I/O are available to the TC except the selection of Evaluation exercises.

3.5 INTEGRATING AFIST WITH THE UNIT GUNNERY PROGRAM

The AFIST should be used regularly as a component of the unit tank gunnery training program. Since different crews may be at different proficiency levels, the training manager should plan to use the AFIST where it best assists in meeting unit training objectives.

At company level, when platoons are scheduled for basic gunnery training, the AFIST should be included. A "round robin" series of training stations can be devised, with the AFIST as one of the stations. Crews can train on gunnery skills at certain stations that do not require engagement simulation and train on basic crew engagement tasks on the AFIST. An example of this round robin training incorporating the AFIST is shown in Figure 3-2.

If the platoon is at an intermediate or advanced level of training, the whole platoon may rotate through the simulator. In this example, one of the stations would be the AFIST. One crew could observe a crew training on the AFIST while waiting its turn to train. The waiting crew also could engage in concurrent tank gunnery training, such as weapons disassembly/assembly or other tasks. The other two crews could engage in prepare-to-fire check exercises at one station, boresight exercises at another station, and then rotate to the AFIST.

AFIST

STATION #1

INDIVIDUAL CREW MWMBER SKILLS* BASED ON TRAINING TASKS

STATION #2

PREPARE-TO-FIRE EXERCISE*

STATION #4

BORESIGHT TRAINING EXERCISE*

STATION #3
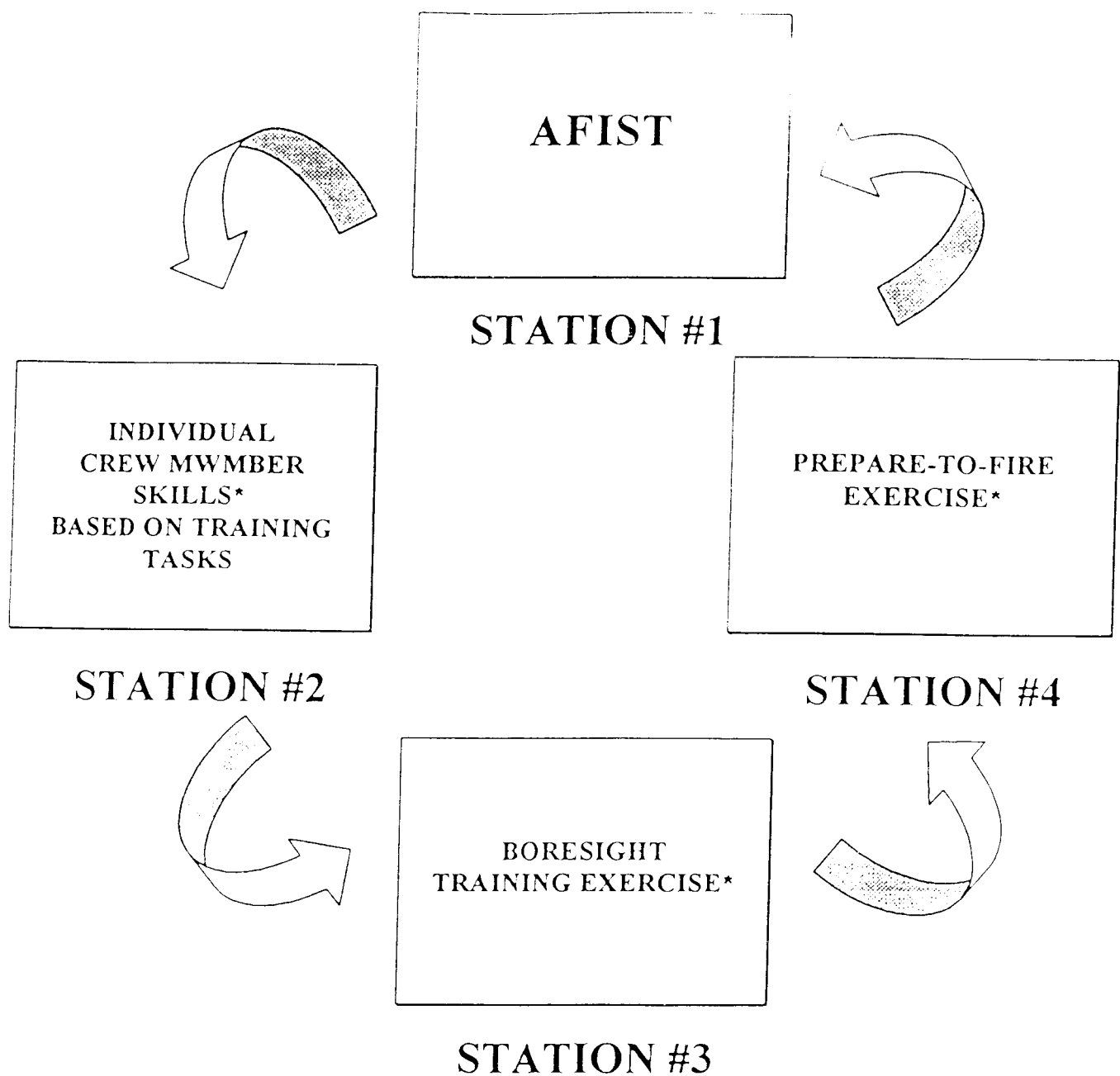
*Select exercises based on training requirements of unit. Unit commander and his leaders may select any combination of tasks for individual crew members, partial or full-crews. EXAMPLE:

- Any task from TCGST
- Target Acquisition Training
- Tracking & Manipulation training with Snake Boards
- Range Estimation and Determination Training
- Emergency Procedures
- Review of degraded gunnery techniques

Figure 3-3. Sample Training Exercise for Platoon Training Session

APPENDIX A

REFERENCE AND TEXT MATERIALS

A. FIELD MANUALS.

FM-17-12-1/2 — Tank Gunnery (Abrams)

FM 25-101 — Battle Focused Training

B. TECHNICAL MANUALS.

TM 9-6920-716-10 — AFIST Operator's Manual

TM 9-6920-GF1-11 — AFIST System Maintenance Manual

TM 9-2350-255-10-1/2 — Operator's Manual, Tank, Combat, Full-Tracked: 105-mm Gun, M1 (2350-01-061-2445) and Tank, Combat, Full-Tracked: 105-mm Gun, IPM1 (2350-01-136-8738), General Abrams

TM 9-2350-264-10-1/2 — Operator's Manual, Tank, Combat, Full-Tracked: 120-mm Gun, M1A1 (2350-01-087-1095), General Abrams

C. COMMERCIAL OFF-THE-SHELF DOCUMENTS

AK74919-01 — Citizen™ GSX-190 User's Manual, 9-Wire Dot Matrix Printer

Unnumbered — MAG Innovision MX17F User's Manual, 17" Microprocessor Based Digitally Controlled, LCD Interactive Display Multi-frequency Color Monitor

Unnumbered — MAG Innovision MX14S User's Manual, 14" Microprocessor Based Digitally Controlled, Multi-frequency Color Monitor

P/N 165581-R001, Rev O/R — Chicony KB-5581, KB-5582 Quick Installation Guide

D. OTHER

GFT/03/03/0 — Software requirements specification and interface requirements specification for the simulation and exercise control (SEC) of the Abrams Full-Crew Interactive Simulation Trainer (AFIST)

GFT/13/00/0 — AFIST Training Course Control Document, Instructor/Key Personnel Training

GFT/14/00/0 — AFIST Lesson Plans IK-1 – IK-19, Instructor/Key Personnel Training

A-1

AFIST CREW BRIEFING

PRIOR TO CREW ARRIVAL

- REVIEW CREW RECORDS / PLAN SESSION BASED ON UNIT GOALS

PREBRIEF

- VERIFY THAT CREW ROSTER MATCHES ACTUAL CREW
- REVIEW LAST SESSION
- BRIEF PLAN & TRAINING OBJECTIVE

SAFETY:

- OBSERVE ALL STANDARD TANK SAFETY PROCEDURES. i.e. (GUARDS, THREE POINTS OF CONTACT, ETC.)
- EMERGENCY STOP (ROOF OF TURRET/ABOVE BREECH)
- EVACUATION PROCEDURES
- WATCH FOR CABLES WHILE ENTERING TANK POSITIONS
- DO NOT ADJUST OR STOW DRIVERS STEER-THROTTLE CONTROL HANDLE (T-BAR)
- DRIVER MUST BE CAREFUL NOT TO HIT BRAKE SENSOR WHILE ENTERING POSITION
- DO NOT USE PARKING BRAKE
- ENSURE TURRET IS LOCKED, AFIST TRAVEL LOCK IS IN PLACE, AND CWS IS IN POWER

TANK POSITIONS:

TC:

- SIMULATION/MENU SWITCH IN *SIMULATION* BEFORE ENGAGEMENT STARTS
- CWS HANDLE CONTROLS FUP VIEW

GNR:

- TIS PICTURE CAN NOT BE ADJUSTED / BLACK – WHITE HOT IS FUNCTIONAL
- DO NOT USE MANUAL CONTROLS
- TANK ONLY FIRES SABOT, HEAT, COAX
- GUNNER MUST GO TO TRIGGER SAFE AFTER EACH TASK

LD:

- ENSURE PROPER LOADING SEQUENCE IS UNDERSTOOD

DVR:

- BEFORE SHIFTING GEARS TANK MUST COME TO A COMPLETE STOP TO PREVENT TRANSMISSION DAMAGE
- STABALIZATION SPEED 15-20 MPH FOR OFFENSIVE EXERCISES

APPENDIX B

LOGGED ERRORS

Table B-1. Crew Duties Penalty Points for Computer-Logged Errors

Error ID	Crew Member	Error Description
CRITICAL - 100 Points (Destruction of Tank)		
TC001	TC	**Killed by Enemy.** Failing to eliminate target within time limit (results in immediate destruction of tank).
TC002	TC	**Abandoned Position.** Tank exceeded boundaries of assigned exercise movement area (100-meter radius round center of berm for defensive task).
TC003	TC	**Too Close to Target.** Moving tank too close to target during offensive engagement. (Tank is destroyed if initial distance between it and target closes by 40 percent of initial target range.)
MAJOR - 30 Points		
TC100	TC	**Firing Into Berm.** Not ensuring main gun is clear of the berm.
TC101	TC	**Incorrect Ammo Usage.** Using wrong ammunition against target.
TC102	TC	**Firing at Friendly Targets.** Firing at friendly array, regardless of whether targets are hit.
TC103	TC	**Not Firing Suppressive Burst.** Failing to fire a suppressive burst after killing the last set of troop targets (machine gun engagement).
TC104	TC	**Not Firing Engagement.** TC not firing his engagement in a three-man crew.
G100	Gunner	**Firing Into Berm.** Not ensuring main gun is clear of the berm.
G101	Gunner	**Incorrect Ammo Usage.** Using wrong ammunition against target.
G102	Gunner	**Firing at Friendly Targets.** Firing at friendly array, regardless of whether targets are hit.
G103	Gunner	**Not Firing Suppressive Burst.** Failing to fire a suppressive burst after killing the last set of troop targets (machine gun engagement).
G104	Gunner	**Incorrect Weapon Selected.** Firing wrong weapon.

IMPORTANT - 10 Points		
TC200	TC	**Weapon Safety**. Leaving the main gun in the ARMED position between tasks.
G200	Gunner	**Weapon Safety.** Leaving the GUN SELECT switch to MAIN or COAX or leaving the main gun in the ARMED position between tasks.
MINOR - 5 Points		
TC300	TC	**Engaged Lesser Priority Target**. Engaging a target while a more dangerous target is active.
G300	Gunner	**Incorrect Fire Mode**. Firing weapons from moving tank when in EMERGENCY fire control mode.
G301	Gunner	**Incorrect Ammo Indexed**. Firing main gun with incorrect ammunition indexed for the round loaded in the breech.
G302	Gunner	**Incorrect GAS Reticle**. Using incorrect setting for the ammunition fired.

Use the following as an example:
    Task: Engage multiple targets
    Conditions: 1 stationary T-72 and 1 moving T-72

If both stationary and moving targets are presented simultaneously, the correct order of engagement would be to fire at the stationary (most dangerous) target first.

If the crew fails to acquire the stationary target (if exposed) and engages the moving target first, a 5-point penalty is imposed automatically by the computer.

Table B-2. Crew Duties Penalty Points for Instructor/Operator-Logged Errors

Error ID	Function Key	Crew Member	Error Description
5 Points			
IO300	F1	TC	**Alert.** Committing fire command error (improper alert element).
IO301	F2	TC	**Ammunition/Weapon.** Choosing incorrect weapon or main gun round.
IO302	F3	TC	**Description.** Describing target incorrectly.
IO303	F4	Gunner	**Identification.** Failure to announce "identified".
IO304	F5	NA	**Range/Sight.** Committing range evaluation or sight selection error (TC or Gunner).
IO305	F6	Loader	**Round Load and Breech Path Clear.** Selecting and loading round and clearing recoil path incorrectly.
IO306	F7	TC	**Execution Command.** Issuing incorrect Execution Command.
IO307	F8	NA	**Command Execution.** Incorrect response to Fire Command.
IO308	F9	TC	**Observation and Subsequent Command.** No sensing for rounds fired or incorrect subsequent fire command.
IO309	F12	Gunner	**Search.** Gunner or TC not Searching for targets during or between Engagements.
10 Points			
IO200	F10	NA	**Crew Safety.** Violating safety procedures.
30 Points			
IO100	F11	NA	**Not Masked During NBC.** Any crew member not wearing protective mask during Nuclear, Biological, and Chemical engagement.

Table B-3. I/O Critique Messages Computer-Logged (No Penalty Points Assessed)

Message ID	Crew Member	Message Description
TC400	TC	**Main Gun Collision.** Rotating main gun into collision with terrain. (Main gun contact with trees, buildings, and terrain results in loss of boresight. Crew may continue engagement firing from the GAS.)
TC401	TC	**Failed to Lase.** During precision engagement with an operational laser, not using laser to determine range to target.
TC402	TC	**Incorrect Magnification.** Firing using GPS or TIS in 3X mode.
TC403	TC	**Too Many Coax Rounds Fired.** Using more than 100 rounds of 7.62-mm ammunition for killing a single area target.
TC404	TC	**Solution Dump.** Firing main gun or COAX after applying automatic lead without dumping the previous lead solution.
TC405	TC	**Incorrect Range Evaluation.** Firing while using the GPS with a flashing range value showing.
TC406	TC	**Inadequate Lasing Recycle Time.** Lasing more than four times within a continuous 80-second period.
TC407	TC	**Advancement Rate Too Slow.** Failing to maintain the recommended stabilization speed. (Offensive exercises only)
TC408	TC	**Hull Exposed.** Firing the main gun or COAX machine gun from a position too far forward, exposing part of the tank hull to possible enemy fire. (Defensive exercises only)
D400	Driver	**Vehicle Collision.** Damaging tank by making contact with water, building, trees, etc. (Running into buildings and water renders the tank immobile. However, if crew can acquire and engage targets, it still can earn target hit credit.)
D401	Driver	**Transmission - Failed to Halt.** Damaging drive train by failing to halt before switching between forward and reverse gears, or before shifting to PVT.
D402	Driver	**Transmission - ¼ Throttle.** Damaging drive train by applying ¼-throttle for more than 30 seconds while in N or while shifting from N.
D403	Driver	**Brake Not Applied.** Not applying brake when main gun is fired while tank is stationary.
D404	Driver	**Incorrect Stabilization Speed.** Not maintaining 15 to 25 MPH when the tank fires its weapons while moving.
D405	Driver	**Incorrect Tactical Idle Switch.** Not engaging TACTICAL IDLE switch when activating smoke generator.
D406	Driver	**Incorrect Tactical Idle Switch - Engage.** Not engaging TACTICAL IDLE switch in defensive posture. (Defensive exercises only)
G400	Gunner	**Main Gun Collision.** Rotating main gun into collision with terrain. (Main gun contact with trees, buildings, and terrain results in loss of boresight. Crew may continue engagement firing from the GAS.)

Table B-3. I/O Critique Messages Computer-Logged (No Penalty Points Assessed)

Message ID	Crew Member	Message Description
G401	Gunner	**Failed to Lase.** During precision engagement with an operational laser, not using laser to determine range to target.
G402	Gunner	**Incorrect Magnification.** Firing using GPS or TIS in 3X mode.
G403	Gunner	**Too Many Coax Rounds Fired.** Using more than 100 rounds of 7.62-mm ammunition for killing a single area target.
G404	Gunner	**Solution Dump.** Firing main gun or COAX after applying automatic lead without dumping the previous lead solution.
G405	Gunner	**Incorrect Range Evaluation.** Firing while using the GPS with a flashing range value showing.
G406	Gunner	**Inadequate Lasing Recycle Time.** Lasing more than four times within a continuous 80-second period.
L400	Loader	**Gun/Turret Drive Switch - UNCPL.** Failing to place GUN/TURRET DRIVE switch in UNCPL position before starting load sequence.
L401	Loader	**Gun/Turret Drive Switch - POWERED.** Placing GUN/TURRET DRIVE switch in POWERED position before finishing load sequence.
L402	Loader	**Ejection Guard - SAFE Position.** Failing to put Ejection Guard or SAFE/ARM Handle in open or SAFE position after GUN/TURRET DRIVE switch is in EL UNCPL and before using knee switch.
L403	Loader	**Ejection Guard - ARM Position.** Attempting to load round into the breech with the Ejection Guard or SAFE/ARM Handle in the open or ARM position.

APPENDIX C

GUNNERY TRAINING TASK SYLLABUS, EXERCISE SUMMARY OUTLINES, AND SCRIPTS

C-1 **GENERAL (TRAINING TASK EXERCISE MATRIX).**

The AFIST exercise matrix, shown in Figure C-5, is divided into six exercise groups of progressively difficult tasks. Each group represents a training skill level and consists of related exercises with similar objectives, as follows:

a. **Group I -** Stationary own tank vs. stationary targets.

b. **Group II** - Stationary own tank vs. moving targets.

c. **Group III** - Moving own tank vs. stationary or moving targets.

d. **Group IV, IVA & IVB**- Moving own tank vs. stationary / moving targets.

e. **Group V** - Stationary / moving own tank vs. stationary / moving targets. "Nonstandard" tasks: IFFN, three targets, HIND engagement.

f. **Group VIA & VIB** - Stationary / moving own tank vs. stationary / moving targets.

Crews must pass an evaluation exercise in an exercise group before AFIST allows them to progress to the next exercise group.

When an exercise is selected for simulation, AFIST runs one of the tasks in that exercise or the "linked-task" exercise. The system contains 504 tasks with target combinations and ranges based on a combination of standards from FM 17-12-1 and the AFIST System Requirements Specification.

C-1.1 **Scenarios**. The AFIST database presents exercises in European and Desert scenarios. Each scenario displays appropriate views through crew sights and vision blocks. The I/O can select *either* terrain for Groups I - V *Training* and for Group VIA and VIB *Evaluation*. The terrain is predetermined for Group I – III & V *Evaluation* and for Group VIA & VIB *Training*. Group IVA & IVB *Evaluation* is only available in a European scenario.

C-1.2 **Exercise Modes**. AFIST exercises can be run in each of three progressively difficult Modes:

a. **Orientation Mode**. *Orientation* tasks are identical to those in *Training* Mode, except that Tasks run for **3 minutes** to familiarize the crew to the exercise. These tasks are used to train the crew in tank gunnery basics at the individual crew stations and in crew coordination.

b. **Training Mode**. *Training* tasks run from 50 to 65 seconds. These tasks should be selected when the crew has become more proficient in tank gunnery basics. The I/O must evaluate the results of *Training* exercises to determine when a crew is ready to advance to Evaluation exercises.

c. **Evaluation Mode**. In Groups I - III & V, a crew must successfully complete four of the six tasks presented to progress to the next group. *Evaluation* in Groups I – III & V is on separate gunnery tasks. Group IVA and IVB *Evaluation* exercises replicate TT's IVA and IVB. Group VIA and VIB *Evaluation* exercises replicate TT's VIIIA and VIIIB, and are **"linked-task"** exercises in which single tasks are presented in unbroken sequence, just as they would be presented on an actual tank range.

NOTE
The Tank Commander (TC) cannot select the Evaluation Mode when controlling the simulation in Secondary Operating Mode.

NOTE
Group IVA & IVB are not available in *Orientation* or *Training* Mode.

EXERCISE

TASKS

O/T Evaluation   O/T Evaluation   O/T Evaluation   O/T   Evaluation

6 | GAS | 6 | GAS | 6 | GAS | 6 | 3MAN PRECISION
5 | LRF | 5 | LRF | 5 | LRF | 5 | PRECISION PRECISION | 5 | LR
4 | Stab | 4 | Stab | 4 | Stab | 4 | PRECISION PRECISION | 4 | Stab | G NBC
3 | NBC | 3 | NBC | 3 | NBC | 3 | LRF NBC | 3 | Night | GAS | LRF
2 | Night | 2 | Night | 2 | Night | 2 | LRF NBC | 2 | Night | GAS STAB | STAB | NBC STAB   STAB
1 | Day | 1 | Day | 1 | Day | 1 | NBC PRECISION | 1 | Day | GAS PRECISION PRECISION PRECISION P

GAS		GAS		GAS		GAS				GAS					
LRF	3D	LRF	3E	LRF	3E	LRF	3E			LRF	3E	GAS	PRECISION	NBC	PRECISION	PRECISION
STAB		STAB		STAB		STAB				STAB						
NBC	2E	NBC	2D	NBC	2D	NBC	2D	1	1	NBC	2D					
NIGHT		NIGHT		NIGHT		NIGHT		IVA	IVB	NIGHT						
DAY	1D	DAY	1D	DAY	1E	DAY	1E			DAY	1D					

Group I
Stationary Own
vs
Stationary TGTS

Group II
Stationary Own
vs
Moving TGTS

Group III
Stationary Own
vs
Stationary TGTS

Group IV
Moving own
vs
STAT/MOV
TGTS

Group IV
Movstat Own
vs
Movstat TGTS

Group V
Movstat Own
vs
Movstat TGTS

Group VI A O/T
STAT/MOV Own
vs
STAT/MOV TGTS

Figure C-1 TrainingTas

GAS

RF *GAS* *GAS* *GAS*

AS *NBC* *NBC* *NBC* *NBC* *NBC* *NBC* *NBC* *NBC*

NBC
LRF *LRF* *LRF* *LRF* *LRF* *LRF* *LRF* *LRF*

STAB *STAB* *STAB* *STAB* *STAB* *STAB* *STAB*

PRECISION *GAS* *PRECISION* *PRECISION* *PRECISION* *PRECISION* *PRECISION* *PRECISION* *PRECISION* *PRECISION* *PRECISION* *PRECISION* *PRECISION* *PRECISION* *PRECISION* *PRECISION*

GAS	PRECISION	NBC	PRECISION	PRECISION	3 MAN	PRECISION	NBC	PRECISION	PRECISION	3 MAN	PRECISION	NBC	PRECISION	PRECISION

Group VI A Evaluation
STAT/MOV Own
vs
STAT/MOV TGTS

Group VI B O/T
STAT/MOV Own
vs
STAT/MOV TGTS

Group VI B Evaluation
STAT/MOV Own
vs
STAT/MOV TGTS

:k Exercise Matrix

C-2

C-1.3 **Timing/Scoring Variations**. AFIST provides timing variations for tasks based on the Exercise Mode, number of targets, simulated tank malfunctions, and engagement ranges. These variations affect the length of target-exposure time;

a. **Orientation** = 180 seconds, all tasks

b. **Training:**

(1) Groups I – V = 50 – 65 seconds, all tasks

(2) Group VIA & VIB = IAW FM 17-12-1-2

c. **Evaluation:**

(1) Groups I – III & V:
Defensive = 40 seconds
Offensive = 50 seconds

(2) Groups IVA, IVB, VIA &VIB:
IAW FM 17-12-1-2

All task scores are 100 points if all targets are a catastrophic kill(s) within the target-exposure time, except when IAW 17-12-1-2.

C-2 **EXERCISE OUTLINES**.

The following pages contain the AFIST exercise and task summaries. Exercise and task numbers shown in the summaries represent the following:

a. First character = Group number

b. Second character = Exercise mode:

T = Training (Orientation)

E = Evaluation

NOTE
In Group VIA & VIB *Training & Evaluation* and in Group IVA & IVB *Evaluation* exercises and tasks, the first and second characters together represent the group number:

6A =   VIA

c. Third character = Exercise number:

(1) In *Training,* Groups I – V, the Exercise number represents the following;
1   =   Normal
2   =   Night
3   =   NBC
4   =   Stab Failure
5   =   LRF Failure
6   =   Computer/LRF Failure(GAS)

NOTE
The above is N/A for Groups VIA, VIB or
Evaluation exercises. See the Exercise
Summary for exercise specifics.

d. Fourth character = Task number:

(1) In *Training* the Task number is a replication of the above exercise number.

(2) In *Evaluation* the Task number follows the above format for Groups I – III & V.

NOTE
The above is N/A for Groups IVA, IVB,
VIA, or VIB. See the Exercise Summary
for exercise specifics.

e. Fifth character = Database:

E = European

D = Desert

NOTE
The fifth character is used only when the terrain is predetermined.

The following are examples of the Exercise and Task numbering format:

a. Task 5T45 = Group V, Training, Exercise #4 (Stab Failure), Task #5, available in both terrain's.

b. Task 6AT23E = Group VIA, Training, Exercise #2 (Troops), Task #3 (LRF Failure), European terrain.

Legends for Exercise Summary

O/T   Own Tank

M   Moving

S   Stationary

R   Distance to target at initial exposure

Flank   Target will appear with flank exposure

Frontal   Target will appear with frontal exposure

Rear   Target will appear with rear exposure

Ammo Recommended ammunition type/quantity for task

Sight   Recommended sight for task

NOTES

1. The preferred method is to use the Thermal Imaging System (TIS) as the primary sight (Day or Night).

GROUP I TRAINING
EXERCISES 1-6, TASKS 1-6
STATIONARY OWN TANK – STATIONARY TARGETS

All exercises and tasks may be performed in European (E) and Desert (D) terrain.

Group I Training Exercise 1 (1T1)

"Your tank is fully operational. It is 0900 Local. Enemy Armor reported in your sector, Defend and report, Out."

Exer. No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
1T1 Task 1-6	S	T-72 (S)	1000-1600	Frontal	:50	2 Rds APFSDS-T	GPS/ TIS	--	--	0900

Group I Training Exercise 2 (1T2)

"Your tank is fully operational. It is 2400 Local. Enemy Recon reported in your sector, Defend and report, Out"

Exer. No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
1T2 Task 1-6	S	BMP (S)	1200-1800	Frontal	:50	2 Rds HEAT-T	TIS	--	Night	2400

Group I Training Exercise 3 (1T3)

"GAS, GAS, GAS!" (Give tank crew time to don protective masks.) "Your tank is fully operational. It is 1500 Local Enemy Armor reported in your sector. Defend and report. Out"

[Give "all clear" at the conclusion of Training tasks in Exercise 3 before moving on to tasks in other exercises]

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
1T3 Task 1-6	S	T-72 (S)	1400-2000	Flank	:50	2 Rds APFSDS-T	GPS/ TIS	--	NBC	1500

Group I Training Exercise 4 (1T4)

"Your tank has a Stabilization Failure. It is 0600 Local Enemy Armor reported in your sector. Defend and report. Out"

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
1T4 Task 1-6	S	2 T-72s (S)	1200-1800	Frontal Frontal	:60	3 Rds APFSDS-T	GPS/ TIS	Stabilization Failure	--	0600

Group I Training Exercise 5 (1T5)

"You have a Laser Rangefinder Failure. It is 1700 Local Enemy Recon reported in your sector. Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
1T5 Task 1-6	S	2 BMPs (S)	900-1500	Flank Flank	:65	3 Rds HEAT-T	GPS/ TIS	LRF Failure	--	1700

Group I Training Exercise 6 (1T6)

"You have a Computer and LRF Failure. It is 1500 Local Enemy Armor reported in your sector. Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
1T6 Task 1-6	S	T-72 (S)	1100-1600	Frontal	:55	2 Rds APFSDS-T	GAS	Computer/ LRF Failure	--	1500

GROUP I EVALUATION

EXERCISES 1-3, TASKS 1-6

STATIONARY OWN TANK – STATIONARY TARGETS

NOTE

I/O must brief the malfunctions / special conditions as they occur during the Evaluation exercises. (Use the exercise 'prompt' as a guide)

The tasks are presented in numerical sequence (1-6) during the Evaluation exercise.

Task	Malfunction/Special Condition
1	None
2	Night
3	NBC (tank overpressure system non operational)
4	Stabilization failure
5	Laser Rangefinder failure
6	Ballistic computer/Laser Rangefinder failure

Group I Evaluation Exercise 1 (1E1)

"You have < state malfunction/Special Conditions > It is < state the appropriate time >
Enemy Armor reported in your sector, Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
1E11 D	S	T-72 (S)	900-1100	Frontal	:40	2 Rds APFSDS-T	GPS/ TIS	--	--	1500
1E12 D	S	T-72 (S)	1000-1200	Frontal	:40	2 Rds APFSDS-T	TIS	--	Night	2400
1E13 D	S	T-72 (S)	1100-1300	Flank	:40	2 Rds APFSDS-T	GPS/ TIS	--	NBC	0900
1E14 D	S	T-72 (S)	1200-1400	Flank	:40	2 Rds APFSDS-T	GPS/ TIS	Stabilization Failure	--	Dusk
1E15 D	S	T-72 (S)	1300-1500	Frontal	:40	2 Rds APFSDS-T	GPS/ TIS	LRF Failure	--	Noon
1E16 D	S	T-72 (S)	1100-1300	Flank	:40	2 Rds APFSDS-T	GAS	Computer/ LRF Failure	--	1500

Group I Evaluation Exercise 2 (1E2)

"You have < state malfunction/Special Conditions >. It is < state the appropriate time >
Enemy Armor reported in your sector, Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
1E21 E	S	T-72 (S)	1400-1600	Flank	:40	2 Rds APFSDS-T	GPS/ TIS	--	--	Dawn
1E22 E	S	T-72 (S)	1500-1700	Flank	:40	2 Rds APFSDS-T	TIS	—	Night	2400
1E23 E	S	T-72 (S)	1600-1800	Frontal	:40	2 Rds APFSDS-T	GPS/ TIS	--	NBC	Dusk
1E24 E	S	T-72 (S)	1700-1900	Frontal	:40	2 Rds APFSDS-T	GPS/ TIS	Stabilization Failure	--	1500
1E25 E	S	T-72 (S)	1200-1400	Flank	:40	2 Rds APFSDS-T	GPS/ TIS	LRF Failure	--	0900
1E26 E	S	T-72 (S)	1200-1400	Frontal	:40	2 Rds APFSDS-T	GAS	Computer/ LRF Failure	--	Noon

Group I Evaluation Exercise 3 (1E3)

"You have < state malfunction/Special Conditions > It is < state the appropriate time >
Enemy Recon reported in your sector, Defend and report, Out "

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
1E31 D	S	BMP (S)	1200-1400	Flank	:40	2 Rds HEAT-T	GPS/ TIS	--	--	Dusk
1E32 D	S	BMP (S)	1300-1500	Flank	:40	2 Rds HEAT-T	TIS	--	Night	2400
1E33 D	S	BMP (S)	1400-1600	Frontal	:40	2 Rds HEAT-T	GPS/ TIS	--	NBC	0900
1E34 D	S	BMP (S)	1600-1800	Flank	:40	2 Rds HEAT-T	GPS/ TIS	Stabilization Failure	--	Dawn
1E35 D	S	BMP (S)	900-1100	Frontal	:40	2 Rds HEAT-T	GPS/ TIS	LRF Failure	--	1500
1E36 D	S	BMP (S)	1200-1400	Frontal	:40	2 Rds HEAT-T	GAS	Computer/ LRF Failure	--	Noon

GROUP II TRAINING
EXERCISES 1-6, TASKS 1-6
STATIONARY OWN TANK - MOVING TARGETS

All exercises and tasks may be performed in European (E) and Desert (D) terrain

Group II Training Exercise 1 (2T1)

"Your tank is fully operational. It is 1200 Local. Enemy Recon reported in your sector, Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
2T1 Task 1-6	S	2 BMPs (M)	900-1500	Flank	:55	3 Rds HEAT-T	GPS/ TIS	--	--	1200

Group II Training Exercise 2 (2T2)

"Your tank is fully operational. It is 2400 Local. Enemy Armor reported in your sector. Defend and report, Out"

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
2T2	S	2 T-72s (M)	1000-1600	Flank	:55	3 Rds APFSDS-T	TIS	--	Night	2400

Group II Training Exercise 3 (2T3)

"GAS, GAS, GAS!" (Give tank crew time to don protective masks.) "Your tank
is fully operational. It is 1500 Local. Enemy ADA reported in your sector, Defend and report, Out."

*[Give "all clear" at the conclusion of Training tasks in Exercise 3 before
moving on to tasks in other exercises]*

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
2T3 Task 1-6	S	ZSU (M)	800-1400	Flank	:50	2 Rds HEAT-T	GPS/ TIS	--	NBC	0900

Group II Training Exercise 4 (2T4)

"Your tank has a Stabilization Failure. It is 0600 Local. Enemy Armor
reported in your sector, Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
2T4 Task 1-6	S	2 T-72s (M)	1000-1600	Flank Flank	:65	3 Rds APFSDS-T	GPS/ TIS	Stabilization Failure	--	Dawn

Group II Training Exercise 5 (2T5)

"You have a Laser Rangefinder Failure. It is 1700 Local. Enemy Armor
reported in your sector, Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
2T5 Task 1-6	S	T-72 (M)	1200-1600	Flank	:60	2 Rds APFSDS-T	GPS/ TIS	LRF Failure	--	Dusk

Group II Training Exercise 6 (2T6)

You have a Computer and LRF Failure. It is 1500 Local. Enemy Recon
reported in your sector, Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
2T6 Task 1-6	S	BMP (M)	900-1500	Flank	:55	2 Rds HEAT-T	GAS	Computer/ LRF Failure	-	1500

GROUP II EVALUATION

EXERCISES 1-3, TASKS 1-6

STATIONARY OWN TANK – MOVING TARGETS

NOTE

I/O must brief the malfunction / special conditions as they occur during the Evaluation exercises. (Use the exercise 'prompt' as a guide)

The tasks are presented in numerical sequence (1-6) during the Evaluation exercise.

Task	Malfunction/Special Condition
1	None
2	Night
3	NBC (tank overpressure system non operational)
4	Stabilization failure
5	Laser Rangefinder failure
6	Ballistic computer/Laser Rangefinder failure

Group II Evaluation Exercise 1 (2E1)

"You have < state malfunction/ Special Conditions > It is < state the appropriate time >
Enemy Recon reported in your sector, Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
2E11 D	S	2 BMPs (M)	1400-1600	Flank Flank	:40	3 Rds HEAT-T	GPS/ TIS	--	--	1200
2E12 D	S	2 BMPs (M)	1300-1500	Flank Flank	:40	3 Rds HEAT-T	TIS	--	Night	2400
2E13 D	S	2 BMPs (M)	1200-1400	Flank Flank	:40	3 Rds HEAT-T	GPS/ TIS	--	NBC	Dusk
2E14 D	S	2 BMPs (M)	1000-1200	Flank	:40	3 Rds HEAT-T	GPS/ TIS	Stabilization Failure	--	0900
2E15 D	S	2 BMPs (M)	900-1100	Flank Flank	:40	3 Rds HEAT-T	GPS/ TIS	LRF Failure	--	1500
2E16 D	S	2 BMPs (M)	1100-1300	Flank	:40	3 Rds HEAT-T	GAS	Computer/ LRF Failure	--	1500

Group II Evaluation Exercise 2 (2E2)

"You have < state malfunction/ Special Conditions > It is < state the appropriate time >
Enemy Armor reported in your sector, Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
2E21 D	S	2 T-72s (M)	1600-1800	Flank Flank	:40	3 Rds APFSDS-T	GPS/ TIS	--	--	Dawn
2E22 D	S	2 T-72s (M)	1200-1400	Flank Flank	:40	3 Rds APFSDS-T	TIS	--	Night	2400
2E23 D	S	2 T-72s (M)	1500-1700	Flank Flank	:40	3 Rds APFSDS-T	GPS/ TIS	--	NBC	0900
2E24 D	S	2 T-72s (M)	1300-1500	Flank Flank	:40	3 Rds APFSDS-T	GPS/ TIS	Stabilization Failure	--	1500
2E25 D	S	2 T-72s (M)	1200-1400	Flank Flank	:40	3 Rds APFSDS-T	GPS/ TIS	LRF Failure	--	Noon
2E26 D	S	2 T-72s (M)	1400-1600	Flank Flank	:40	3 Rds APFSDS-T	GAS	Computer/ LRF Failure	--	1500

Group II Evaluation Exercise 3 (2E3)

"You have < state malfunction/ Special Conditions > It is < state the appropriate time > Enemy Armor reported in your sector, Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
2E31 E	S	T-72 (M)	1300-1500	Flank	:40	2 Rds APFSDS-T	GPS/ TIS	–	–	1500
2E32 E	S	T-72 (M)	1000-1200	Flank	:40	2 Rds APFSDS-T	TIS	–	Night	2400
2E33 E	S	T-72 (M)	1200-1400	Flank	:40	2 Rds APFSDS-T	GPS/ TIS	–	NBC	Noon
2E34 E	S	T-72 (M)	1100-1300	Flank	:40	2 Rds APFSDS-T	GPS/ TIS	Stabilization Failure	–	Dawn
2E35 E	S	T-72 (M)	1300-1500	Flank	:40	2 Rds APFSDS-T	GPS/ TIS	LRF Failure	–	Dusk
2E36 E	S	T-72 (M)	900-1100	Flank	:40	2 Rds APFSDS-T	GAS	Computer/ LRF Failure	–	1500

Note: This exercise is a SINGLE TARGET presentation. I/O's should only run this exercise after the crews have attempted Evaluation exercises #1 and #2.

GROUP III TRAINING
EXERCISES 1-6, TASKS 1-6
MOVING OWN TANK -- STATIONARY TARGETS

All exercises and tasks may be performed in European (E) and Desert (D) terrain

Group III Training Exercise 1 (3T1)

"Your tank is fully operational. It is 1500 Local. Enemy Armor reported in your sector, bound to Phase Line Blue, engage and report. Out"

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
3T1 Task 1-6	M	2 T-72s (S)	1500-2100	Flank	:55	3 Rds APFSDS-T	GPS/ TIS	-	-	1500

Group III Training Exercise 2 (3T2)

"Your tank is fully operational. It is 2400 Local. Enemy Recon reported in your sector, bound to Phase Line Blue, engage and report. Out"

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
3T2 Task 1-6	M	2 BRDMs (M)	1000-1600	Flank Flank	:55	3 Rds HEAT-T	TIS	-	Night	2400

Group III Training Exercise 3 (3T3)

"GAS, GAS, GAS!" (Give tank crew time to don protective masks.) "Your tank is fully operational. It is 0600 Local. Enemy Recon reported in your sector, bound to Phase Line Blue, engage and report. Out"

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
3T3 Task 1-6	M	2 BMPs (S)	1200-1800	Frontal Frontal	:55	3 Rds HEAT-T	GPS/ TIS	--	NBC	Dawn

Group III Training Exercise 4 (3T4)

"Your tank has a Stabilization Failure. It is 1700 Local. Enemy Armor reported in your sector, bound to Phase Line Blue, engage and report. Out"

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
3T4 Task 1-6	M (Short Halt)	2 T-72s (S)	1000-1600	Frontal Frontal	:65	3 Rds APFSDS-T	GPS/ TIS	Stabilization Failure	--	Dusk

Group III Training Exercise 5 (3T5)

"You have a Laser Rangefinder Failure. It is 0900 Local. Enemy Recon with dismounts reported in your sector, bound to Phase Line Blue, engage and report. Out"

Exer. No.	O/T Activity	Targets/Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
3T5 Task 1-6	M	Troops (S)	400-700	Frontal	:55	100 Rds 7.62	GPS/TIS	LRF Failure	--	0900

Group III Training Exercise 6 (3T6)

"You have a Computer and LRF Failure. It is 1500 Local. Enemy Armor reported in your sector, bound to Phase Line Blue, engage and report. Out"

Exer. No.	O/T Activity	Targets/Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
3T6 Task 1-6	M (Short Halt)	2 T-72s (S)	1200-1800	Frontal Frontal	:65	3 Rds APFSDS-T	GAS	Computer/ LRF Failure	-	1500

GROUP III EVALUATION

EXERCISES 1-3, TASKS 1-6

MOVING OWN TANK – STATIONARY TARGETS

NOTE

I/O must brief the malfunction / special conditions as they occur during the Evaluation exercises. (Use the exercise "prompt" as a guide)

The tasks are presented in numerical sequence (1-6) during The Evaluation exercise.

Task	Malfunction/Special Condition
1	None
2	Night
3	NBC (tank overpressure system non operational)
4	Stabilization failure
5	Laser Rangefinder failure
6	Ballistic computer/Laser Rangefinder failure

Group III Evaluation Exercise 1 (3E1)

"You have < state malfunction/ Special Conditions> It is < state the appropriate time >.
Enemy Armor reported in your sector, bound to Phase Line Red, engage and report, Out."

Exer. No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
3E11 E	M	2 T-72s (S)	1400-1600	Frontal Flank	:50	3 Rds APFSDS-T	GPS/ TIS	--	--	Dawn
3E12 E	M	2 T-72s (S)	1600-1800	Flank Frontal	:50	3 Rds APFSDS-T	TIS	--	Night	2400
3E13 E	M	2 T-72s (S)	1200-1400	Flank Flank	:50	3 Rds APFSDS-T	GPS/ TIS	--	NBC	0900
3E14 E	M (Short Halt)	2 T-72s (S)	1300-1500	Flank Flank	:50	3 Rds APFSDS-T	GPS/ TIS	Stabilization Failure	--	1200
3E15 E	M	2 T-72s (S)	1200-1400	Frontal Frontal	:50	3 Rds APFSDS-T	GPS/ TIS	LRF Failure	--	Dusk
3E16 E	M (Short Halt)	2 T-72s (S)	1400-1600	Frontal Frontal	:50	3 Rds APFSDS-T	GAS	Computer/LRF Failure	--	1500

Group III Evaluation Exercise 2 (3E2)

"You have < state malfunction/ Special Conditions> It is < state the appropriate time >
Enemy Armor reported in your sector, bound to Phase Line Red, engage and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
3E21 D	M	2 T-72s (S)	1300-1500	Flank Flank	:50	3 Rds APFSDS-T	GPS/TIS	--	--	0900
3E22 D	M	2 T-72s (S)	1200-1400	Frontal Flank	:50	3 Rds APFSDS-T	TIS	--	Night	2400
3E23 D	M	2 T-72s (S)	1400-1600	Frontal Flank	:50	3 Rds APFSDS-T	GPS/TIS	--	NBC	Dusk
3E24 D	M (Short Halt)	2 T-72s (S)	1500-1700	Frontal Frontal	:50	3 Rds APFSDS-T	GPS/TIS	Stabilization Failure	--	1500
3E25 D	M	2 T-72s (S)	1100-1300	Frontal Frontal	:50	3 Rds APFSDS-T	GPS/TIS	LRF Failure	--	Dawn
3E26 D	M (Short Halt)	2 T-72s (S)	1300-1500	Flank Flank	:50	3 Rds APFSDS-T	GAS	Computer/LRF Failure	--	1500

Group III Evaluation Exercise 3 (3E3)

"You have < state malfunction/ Special Conditions>. It is < state the appropriate time >.
Enemy Recon reported in your sector, bound to Phase Line Red, engage and report, Out."

Exer. No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
3E31 E	M	2 BMPs (S)	1500-1700	Frontal Flank	:50	3 Rds HEAT-T	GPS/ TIS	--	--	1500
3E32 E	M	2 BMPs (S)	1300-1500	Frontal Flank	:50	3 Rds HEAT-T	TIS	--	Night	2400
3E33 E	M	2 BMPs (S)	1100-1300	Flank Flank	:50	3 Rds HEAT-T	GPS/ TIS	--	NBC	1200
3E34 E	M (Short Halt)	2 BMPs (S)	1400-1600	Frontal Frontal	:50	3 Rds HEAT-T	GPS/ TIS	Stabilization Failure	--	Dawn
3E35 E	M	2 BMPs (S)	1200-1400	Flank Flank	:50	3 Rds HEAT-T	GPS/ TIS	LRF Failure	--	0900
3E36 E	M (Short Halt)	2 BMPs (S)	900-1100	Frontal Flank	:50	3 Rds HEAT-T	GAS	Computer/LRF Failure	--	1500

GROUP IV TRAINING
EXERCISES 1-6, TASKS 1-6
MOVING, OWN TANK -- STATIONARY AND MOVING TARGETS

All exercises and tasks may be performed in European (E) and Desert (D) terrain

Group IV Training Exercise 1 (4T1)

"Your tank is fully operational. It is 0600 Local. Enemy Armor reported in your sector, bound to Phase Line White, engage and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
4T1 Task 1-6	M	1 T-72 (S) 1 T-72 (M)	1000-1600 900-1500	Frontal Flank	:55	3 Rds APFSDS	GPS/ TIS	--	--	Dawn

Group IV Training Exercise 2 (4T2)

"Your tank is fully operational. It is 2400 Local. Enemy Armor reported in your sector, bound to Phase Line White, engage and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
4T2 Task 1-6	M	2 T-72s (S)	1400-2000	Frontal Frontal	:55	3 Rds APFSDS-T	TIS	--	Night	2400

Group IV Training Exercise 3 (4T3)

"GAS, GAS, GAS!" (Give tank crew time to don protective masks.) "Your tank is fully operational. It is 1500 Local. Enemy Recon reported in your sector, bound to Phase Line White, engage and report, Out."

[Give "all clear" at the conclusion of Training tasks in Exercise 3 before moving on to tasks in other exercises]

Exer No.	O/T Activity	Targets/Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
4T3 Task 1-6	M	2 BMPs (M)	800-1400	Flank Flank	:55	3 Rds HEAT-T	GPS/ TIS	--	NBC	1500

Group IV Training Exercise 4 (4T4)

"Your tank has a Stabilization Failure. It is 1200 Local. Enemy Armor reported in your sector, bound to Phase Line White, engage and report, Out."

Exer No.	O/T Activity	Targets/Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
4T4 Task 1-6	M (Short Halt)	1 T-72 (S) 1 T-72 (M)	1100-1700 1100-1700	Frontal Flank	:65	3 Rds APFSDS-T	GPS/ TIS	Stabilization Failure	--	Noon

Group IV Training Exercise 5 (4T5)

"You have a Laser Rangefinder Failure. It is 0900 Local. Enemy Recon
reported in your sector, bound to Phase Line White, engage and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
4T5 Tasks 1-6	M	1 BMP (S) Troops	600-1200 500-600	Frontal Frontal	:60	2 Rds HEAT-T/ 100 Rds 7.62	GPS/ TIS	LRF Failure	--	0900

Group IV Training Exercise 6 (4T6)

"You have a Computer and LRF Failure. It is 1500 Local. Enemy Armor
reported in your sector, bound to Phase Line White, engage and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
4T6 Task 1-6	M	2 T-72s (M)	1200-1600	Flank Flank	:65	3 Rds APFSDS-T	GAS	Computer/ LRF Failure	--	1500

GROUP IVA EVALUATION

(TANK TABLE IV A)

STATIONARY AND MOVING OWN TANK — STATIONARY AND MOVING TARGETS

Task	Malfunction/Special Condition
4AE11	NBC (tank overpressure system non operational)
4AE12	Laser Rangefinder failure
4AE13	None
4AE14	None
4AE15	Three-man crew (TC mission)

NOTE

I/O must brief the malfunction / Special Conditions as they occur during the Evaluation exercises. (Use the exercise "prompt" as a guide)

The tasks are presented in numerical sequence (1-5) during The Evaluation exercise.

This Evaluation exercise is only available in European terrain.

Group IVA Evaluation Exercise 1 (4AE1)

"You have< state malfunction/ Special Conditions> It is1500 Local.
Enemy Armor reported in sector , (depending on O/T Activity)." <Bound to Phase Line Blue ,
engage and report , Out or Defend and report , Out >,

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
TANK TABLE IV A (EUROPEAN)										
4AE11 E	M	2 T-72s (S)	1400-1600	Frontal Frontal	:50	3 Rds APFSDS-T	GPS/ TIS	-	NBC	1500
4AE12 E	S	1 T-72 (M) 1 T-72 (S)	900-1200 1000-1200	Flank Frontal	:40	3 Rds APFSDS-T	GAS	Computer / LRF Failure	-	1500
4AE13 E	S	2 T-72s (M)	1400-1600	Flank Flank	:40	3 Rds APFSDS-T	GPS/ TIS	-	-	1500
4AE14 E	M	1 T-72 (S)	900-1000	Flank Frontal	:50	2 Rds APFSDS-T	GPS/ TIS	-	-	1500
4AE15 E	S	1 T-72 (S)	1400-1600	Frontal Frontal	:40	2 Rds APFSDS-T	GPS/ TIS	-	3 Man Crew	1500

GROUP IVB EVALUATION

(TANK TABLE IV B)

STATIONARY AND MOVING OWN TANK — STATIONARY AND MOVING TARGETS

NOTE

I/O must brief the malfunction/Special Conditions as they occur during the Evaluation exercises. (Use the exercise "prompt" as a guide)

The tasks are presented in numerical sequence (1-5) during the Evaluation exercise.

This Evaluation exercise is only available in European terrain.

Task	Malfunction/Special Condition
4BE11	Night
4BE12	Night, NBC (tank overpressure system non operational)
4BE13	Night
4BE14	Night
4BE15	Night

Group IVB Evaluation Exercise 1 (4BE1)

"You have< state malfunction / Special Conditions >. It is 2400 Enemy Armor or Recon reported in your sector, < bound to Phase Line Red, engage and report, Out or Defend and report, Out >,depending on O/T Activity."

Exer. No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
TANK TABLE IVB (EUROPEAN)										
4BE11 E	S	1 T-72 (M) 1 T-72 (S)	1000-1200 1400-1600	Flank Frontal	:40	3 Rds APFSDS-T	TIS	—	—	2400
4BE12 E	M	1 T-72 (S)	1200-1400	Frontal	:50	2 Rds APFSDS-T	TIS	—	NBC	2400
4BE13 E	S	1 T-72 (S) 1 T-72 (M)	1400-1600 1400-1600	Frontal Flank	:40	3 Rds APFSDS-T	TIS	—	—	2400
4BE14 E	M	2 BMPs (S)	600-800 600-800	Frontal Frontal	:50	3 Rds HEAT-T	TIS	—	—	2400
4BE15 E	M	1 T-72 (S) 1 T-72 (M)	1200-1400 1000-1200	Frontal Flank	:50	3 Rds APFSDS-T	TIS	—	—	2400

GROUP V TRAINING
EXERCISES 1-6, TASKS 1-6
STATIONARY AND MOVING OWN TANK -- STATIONARY AND MOVING TARGETS

All exercises and tasks may be performed in European (E) and Desert (D) terrain

Group V Training Exercise 1 (5T1)

"You tank is fully operational. It is 1500 Local Enemy Recon reported in you sector, Defend and report, Out."

Exer No.	O/T Activity	Targets/Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
5T1 Task 1-6	S	1 BMP (M) 1 BMP (M) 1 M1A1 (S)	1200-1800 1200-1800 800	Flank Flank Rear	:60	3 Rds HEAT-T	GPS/ TIS	-	IFF	1500

Group V Training Exercise 2 (5T2)

"Your tank is fully operational. It is 2400 Local. Enemy Recon reported in your sector, bound to Phase Line White, engage and report, Out."

Exer No.	O/T Activity	Targets/Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
5T2 Task 1-6	M	1 BMP (S) 2 BMPs (M)	900-1500 1000-1600	Frontal Flank	:60	4 Rds HEAT-T	TIS	-	Night	2400

GROUP V TRAINING
EXERCISES 1-6, TASKS 1-6
STATIONARY AND MOVING OWN TANK -- STATIONARY AND MOVING TARGETS

All exercises and tasks may be performed in European (E) and Desert (D) terrain.

Group V Training Exercise 1 (5T1)

" You tank is fully operational. It is 1500 Local. Enemy Recon
reported in you sector, Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
5T1 Task 1-6	S	1 BMP (M) 1 BMP (M) 1 M1A1 (S)	1200-1800 1200-1800 800	Flank Flank Rear	:60	3 Rds HEAT-T	GPS/ TIS	--	IFF	1500

Group V Training Exercise 2 (5T2)

"Your tank is fully operational. It is 2400 Local. Enemy Recon
reported in your sector, bound to Phase Line White, engage and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
5T2 Task 1-6	M	1 BMP (S) 2 BMPs (M)	900-1500 1000-1600	Frontal Flank	:60	4 Rds HEAT-T	TIS	--	Night	2400

Group V Training Exercise 3 (5T3)

"Your tank is fully operational. It is 0600 Local .Enemy Armor
reported in your sector, Defend and report ,Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
5T3 Task 1-6	S	1 T-72 (S) 1 T-72 (M) 1 M1A1 (S)	1200-1800 1200-1800 600	Frontal Flank Rear	:60	3 Rds APFSDS-T	GPS/ TIS	--	IFF	Dawn

Group V Training Exercise 4 (5T4)

"Your tank has a Stabilization Failure. It is 0900 Local. Enemy Recon
reported in your sector, Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
5T4 Task 1-6	S	HIND (S) BMP (M)	1600-2200 1200-1800	Frontal Frontal	:65	2 Rds APFSDS-T/ 2 Rds HEAT-T	GPS/ TIS	Stabilization Failure	--	0900

Group V Training Exercise 5 (5T5)

"You have a Laser Rangefinder Failure. It is 1200 Local. Enemy Recon
reported in your sector, bound to Phase Line White, engage and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
5T5 Task 1-6	M	1 BRDM 2 Sets Troops	500-900 400-700	Frontal Frontal	:65	2 Rds HEAT-T 200 Rds 7.62	GPS/ TIS	LRF Failure	--	Noon

Group V Training Exercise 6 (5T6)

"You have a Computer and Laser Rangefinder Failure. It is 1500 Local. Enemy Armor
reported in your sector, bound to Phase Line White ,engage and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
5T6 Task 1-6	M (Short Halt)	T-72 (S) T-72 (M)	900-1500 1000-1600	Frontal Flank	:65	3 Rds APFSDS-T	GAS	Computer/ LRF Failure	--	1500

GROUP V EVALUATION

EXERCISES 1-3, TASKS 1-6

STATIONARY AND MOVING OWN TANK -- STATIONARY AND MOVING TARGETS

NOTE

I/O must brief the malfunction / Special Conditions as they Occur during the Evaluation exercises. (Use the exercise "prompt" as a guide)

The tasks are presented in numerical sequence (1-6) during The Evaluation exercise.

Task	Malfunction/Special Condition
1	None
2	Night
3	NBC (tank overpressure system non operational)
4	Stabilization failure
5	Laser Rangefinder failure
6	Ballistic computer/Laser Rangefinder failure

Group V Evaluation Exercise 1 (5E1)

"You have < state malfunction / Special Conditions >. It is < state the appropriate time>.
Enemy Armor reported in your sector, bound to Phase Line Red, engage and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
5E11 D	M	T-72 (S) T-72 (M)	1000-1200 1000-1200	Frontal Flank	:50	3 Rds APFSDS-T	GPS/ TIS	--	--	0900
5E12 D	M	T-72 (S) T-72 (M)	1400-1600 1400-1600	Frontal Flank	:50	3 Rds APFSDS-T	TIS	--	Night	2400
5E13 D	M	T-72 (S) T-72 (M)	1200-1400 1200-1400	Frontal Flank	:50	3 Rds APFSDS-T	GPS/ TIS	--	NBC	Dusk
5E14 D	M (Short Halt)	T-72 (S) T-72 (M)	1300-1500 1300-1500	Frontal Flank	:50	3 Rds APFSDS-T	GPS/ TIS	Stabilization Failure	--	1500
5E15 D	M	T-72 (S) T-72 (M)	1000-1200 1000-1200	Frontal Flank	:50	3 Rds APFSDS-T	GPS/ TIS	LRF Failure	--	Dawn
5E16 D	M (Short Halt)	T-72 (S) T-72 (M)	1400-1600 1400-1600	Frontal Flank	:50	3 Rds APFSDS-T	GAS	Computer/ LRF Failure	--	1500

Group V Evaluation Exercise 2 (5E2)

"You have < state malfunction / Special Conditions >. It is < state the appropriate time>.
Enemy Armor reported in your sector, bound to Phase Line Red, engage and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
5E21 D	S	2 T-72s (M)	1600-1800	Flank	:40	3 Rds APFSDS	GPS/ TIS	--	--	1500
5E22 D	S	2 T-72s (M)	1800-2000	Flank	:40	3 Rds APFSDS	TIS	--	Night	2400
5E23 D	S	2 T-72s (M)	1700-1900	Flank	:40	3 Rds APFSDS	GPS/ TIS	--	NBC	0900
5E24 D	S	2 T-72s (M)	1400-1600	Flank	:40	3 Rds APFSDS	GPS/ TIS	Stabilization Failure	--	Dawn
5E25 D	S	2 T-72s (M)	1200-1400	Flank	:40	3 Rds APFSDS	GPS/ TIS	LRF Failure	--	Noon
5E26 D	S	2 T-72s (M)	1200-1400	Flank	:40	3 Rds APFSDS	GAS	Computer/ LRF Failure	--	1500

Group V Evaluation Exercise 3 (5E3)

"You have < state malfunction / Special Conditions >. It is < state the appropriate time>.
Enemy Armor reported in your sector, bound to Phase Line Red, engage and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
5E31 E	M	BMP (S) BMP (M)	1200-1400 1200-1400	Frontal Flank	:50	3 Rds HEAT-T	GPS/ TIS	--	--	Dawn
5E32 E	M	BMP (S) BMP (M)	1500-1700 1500-1700	Frontal Flank	:50	3 Rds HEAT-T	TIS	--	Night	2400
5E33 E	M	BMP (S) BMP (M)	1600-1800 1600-1800	Frontal Flank	:50	3 Rds HEAT-T	GPS/ TIS	--	NBC	Noon
5E34 E	M (Short Halt)	BMP (S) BMP (M)	1300-1500 1300-1500	Frontal Flank	:50	3 Rds HEAT-T	GPS/ TIS	Stabilization Failure	--	0900
5E35 E	M	BMP (S) BMP (M)	900-1100 900-1100	Frontal Flank	:50	3 Rds HEAT-T	GPS/ TIS	LRF Failure	--	Dusk
5E36 E	M (Short Halt)	BMP (S) BMP (M)	1200-1400 1200-1400	Flank Flank	:50	3 Rds HEAT-T	GAS	Computer/ LRF Failure	--	1500

GROUP VIA TRAINING
EXERCISES 1-5
STATIONARY / MOVING OWN TANK -- STATIONARY / MOVING TARGETS

Group VIA Exercise 1 (6AT1 D)
Tank Table VIII A, Task 1

Task	Malfunction/Special Condition
6AT11 D -	Ballistic computer and Laser Rangefinder failure
6AT12 D -	Ballistic computer and Laser Rangefinder failure, Stabilization failure
6AT13 D -	Ballistic computer and Laser Rangefinder failure
6AT14 D -	Ballistic computer and Laser Rangefinder failure, NBC (tank overpressure system non operational)

NOTE

I/O must select the task from task list provided.
Brief the malfunction / Special Conditions
for that task.

Group VIA Exercise 1 (6AT1 D)
Tank Table VIII A, Task 1

"You have < state malfunction / Special Conditions >. It is 1500 Local.
Enemy Armor reported in your sector, Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time *	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
6AT11 D	S	1 T-72 (M) 1 T-72 (S)	900-1300 900-1300	Flank Frontal	:40	3 Rds APFSDS-T	GAS	Computer/ LRF Failure		1500
6AT12 D	S	1 T-72 (M) 1 T-72 (S)	900-1300 900-1300	Flank Frontal	:40	3 Rds APFSDS-T	GAS	Computer/ LRF		1500
6AT13 D	S	1 T-72 (M) 1 T-72 (S)	900-1300 900-1300	Flank Frontal	:40	3 Rds APFSDS-T	GAS	Computer/ LRF Failure		1500
6AT14 D	S	1 T-72 (M) 1 T-72 (S)	900-1300 900-1300	Flank Frontal	:40	3 Rds APFSDS-T	GAS	Computer/ LRF Failure	NBC	1500

Group VIA Exercise 2 (6AT2 E)

Tank Table VIII A, Task 3

NOTE

I/O must select the task from task list provided.
Brief the malfunction / Special Conditions
for that task.

.

Task		Malfunction/Special Condition
6AT21 E	-	None
6AT22 E	-	Stabilization failure
6AT23 E	-	Laser Rangefinder failure
6AT24 E	-	NBC (tank overpressure system non operational)
6AT25 E	-	Ballistic computer and Laser Rangefinder failure

Group VIA Exercise 2 (6AT2 E)
Tank Table VIII A, Task 3

"You have < state malfunction / Special Conditions >. It is 0900 Local.
Enemy Recon reported in your sector, bound to Phase Line Red, engage
and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time *	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
6AT21 E	M	Troops (S) Troops (S)	400-600 700-900	- -	:50	200 Rds 7.62	GPS/TIS	--		0900
6AT22 E	M (Short Halt)	Troops (S) Troops (S)	400-600 700-900	- -	:50	200 Rds 7.62	GPS/TIS	Stabilization Failure		0900
6AT23 E	M	Troops (S) Troops (S)	400-600 400-600	- -	:50	200 Rds 7.62	GPS/TIS	LRF Failure		0900
6AT24 E	M	Troops (S) Troops (S)	400-600 700-900	- -	:50	200 Rds 7.62	GPS/TIS	None	NBC	0900
6AT25 E	M (Short Halt)	Troops (S) Troops (S)	400-600 400-600	- -	:50	200 Rds 7.62	GAS	Computer/ LRF Failure		0900

Group VIA Exercise 3 (6AT3 E)
Tank Table VIII A, Task 4

	Task	Malfunction/Special Condition
NOTE		
	6AT31 E -	NBC (tank overpressure system non operational)
I/O must select the task from task list provided		
Brief the malfunction / Special Conditions for that task.	6AT32 E -	Stabilization failure, NBC (tank overpressure system non operational)
	6AT33 E -	Laser Rangefinder failure, NBC (tank overpressure system non operational)
	6AT34 E -	Ballistic computer and Laser Rangefinder failure, NBC (tank overpressure system non operational)

Group VIA Exercise 3 (6AT3 E)
Tank Table VIII A, Task 4

"GAS, GAS, GAS!" You have < state malfunction / Special Conditions >. It is
<state appropriate time >.Enemy Armor reported in your sector, bound to Phase Line Blue, engage
and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time *	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
6AT31 E	M	2 T-72s (S)	1400-1600	Frontal Frontal	:50	3 Rds APFSDS-T	GPS/ TIS	--	NBC	Dawn
6AT32 E	M (Short Halt)	2 T-72s (S)	1400-1600	Frontal Frontal	:50	3 Rds APFSDS-T	GPS/TIS	Stabilization Failure	NBC	Dawn
6AT33 E	M	2 T-72s (S)	1400-1600	Frontal Frontal	:50	3 Rds APFSDS-T	GPS/TIS	LRF Failure	NBC	Dawn
6AT34 E	M (Short Halt)	2 T-72s (S)	1400-1600	Frontal Frontal	:50	3 Rds APFSDS-T	GAS	Computer/ LRF Failure	NBC	1500

Group VIA Exercise 4 (6AT4 E)
Tank Table VIII A, Task 5

NOTE

I/O must select the task from task list provided
Brief the malfunction / Special Conditions for that task.

.

Task	Malfunction/Special Condition
6AT41 E -	None
6AT42 E -	Stabilization failure
6AT43 E -	Laser Rangefinder failure
6AT44 E -	NBC (tank overpressure system non operational)
6AT45 E -	Ballistic computer and Laser Rangefinder failure

Group VIA Exercise 4 (6AT4 E)
Tank Table VIII A, Task 5

"You have < state malfunction / Special Conditions >. It is 0900 Local.
Enemy Armor reported in your sector, bound to Phase Line Green, engage
and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time *	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
6AT41 E	M	2 T-72s (M)	1400-1600	Flank Flank	:50	3 Rds APFSDS-T	GPS/TIS	--	--	0900
6AT42 E	M (Short Halt)	2 T-72s (M)	1400-1600	Flank Flank	:50	3 Rds APFSDS-T	GPS/TIS	Stabilization Failure		0900
6AT43 E	M	2 T-72s (M)	1400-1600	Flank Flank	:50	3 Rds APFSDS-T	GPS/TIS	LRF Failure	--	0900
6AT44 E	M	2 T-72s (M)	1400-1600	Flank Flank	:50	3 Rds APFSDS-T	GPS/TIS	--	NBC	0900
6AT45 E	M (Short Halt)	2 T-72s (M)	1400-1600	Flank Flank	:50	3 Rds APFSDS-T	GAS	Computer/ LRF Failure	--	0900

Group VIA Exercise 5 (6AT5 D)
Tank Table VIII A, Task 5A

NOTE

I/O must select the task from task list provided
Brief the malfunction / Special Conditions for that task.

Task	Malfunction/Special Condition
6AT51 D -	None
6AT52 D -	Stabilization failure
6AT53 D -	Laser Rangefinder failure
6AT54 D -	NBC (tank overpressure system non operational)
6AT55 D -	Ballistic computer and Laser Rangefinder failure

Group VIA Exercise 5 (6AT5 D)
Tank Table VIII A, Task 5A

"You have < state malfunction / Special Conditions >. It is 1500 Local.
Enemy Armor reported in your sector, bound to Phase Line Purple, engage
and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time *	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
6AT51 D	M	1 T-72 (S) 1 T-72 (M)	1400-1600 1400-1600	Frontal Flank	:50	3 Rds APFSDS-T	GPS/TIS	--	--	1500
6AT52 D	M (Short Halt)	1 T-72 (S) 1 T-72 (M)	1400-1600 1400-1600	Frontal Flank	:50	3 Rds APFSDS-T	GPS/TIS	Stabilization Failure	--	1500
6AT53 D	M	1 T-72 (S) 1 T-72 (M)	1400-1600 1400-1600	Frontal Flank	:50	3 Rds APFSDS-T	GPS/TIS	LRF Failure	--	1500
6AT54 D	M	1 T-72 (S) 1 T-72 (M)	1400-1600 1400-1600	Frontal Flank	:50	3 Rds APFSDS-T	GPS/TIS	--	NBC	1500
6AT55 D	M (Short Halt)	1 T-72 (S) 1 T-72 (M)	1400-1600 1400-1600	Frontal Flank	:50	3 Rds APFSDS-T	GAS	Computer/ LRF Failure	--	1500

GROUP VIB TRAINING
EXERCISES 1-5
STATIONARY AND MOVING OWN TANK -- STATIONARY AND MOVING TARGETS

Group VIB Training Exercise 1 (6BT1 E)
Tank Table VIII B, Task 1

NOTE

I/O must also brief the following malfunctions and special conditions as they occur during this exercise:

Task	Malfunction/Special Condition
6BT11 E	- Three-man crew
6BT12 E	- Stabilization failure, Three-man crew
6BT13 E	- Laser range finder failure, Three-man crew
6BT14 E	- NBC (tank overpressure system non operational), Three-man crew

Group VIB Exercise 1 (6BT1 E)
Tank Table VIII B, Task 1

"Your Loader has been killed, you have < state malfunction / Special Conditions>. It is 2400 Local.
Enemy Armor reported in your sector, Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time *	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
6BT11 E	S	1 T-72 (S)	1400-1600	Frontal	:40	2 Rds APFSDS-T	TIS	--	3 Man Crew	2400
6BT12 E	S	1 T-72 (S)	1400-1600	Frontal	:40	2 Rds APFSDS-T	TIS	Stabilization Failure	3 Man Crew	2400
6BT13 E	S	1 T-72 (S)	1400-1600	Frontal	:40	2 Rds APFSDS-T	TIS	LRF Failure	3 Man Crew	2400
6BT14 E	S	1 T-72 (S)	1400-1600	Frontal	:40	2 Rds APFSDS-T	TIS	--	3 Man Crew/ NBC	2400

Group VIB Training Exercise 2 (6BT2 D)
Tank Table VIII B, Task 2

NOTE

I/O must also brief the following malfunctions and special conditions as they occur during this exercise:

Task	Malfunction/Special Condition
6BT21 D -	None
6BT22 D -	Stabilization failure
6BT23 D -	Laser range finder failure
6BT24 D -	NBC (tank overpressure system non operational)

Group VIB Training Exercise 2 (6BT2 D)
Tank Table VIII B, Task 2

"You have < state malfunction / Special Conditions >. It is 2100 Local.
Enemy Recon reported in your sector, Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time *	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
6BT21 D	S	2 BMPs (S)	1200-1400	Frontal Frontal	:40	3 Rds HEAT-T	TIS	--	--	2100
6BT22 D	S	2 BMPs (S)	1200-1400	Frontal Frontal	:40	3 Rds HEAT-T	TIS	Stabilization	--	2100
6BT23 D	S	2 BMPs (S)	1200-1400	Frontal Frontal	:40	3 Rds HEAT-T	TIS	LRF Failure	--	2100
6BT24 D	S	2 BMPs (S)	1200-1400	Frontal Frontal	:40	3 Rds HEAT-T	TIS	--	NBC	2100

Group VIB Training Exercise 3 (6BT3 E)
Tank Table VIII B, Task 3

Task		Malfunction/Special Condition
6BT31 E	-	NBC (tank overpressure system non operational)
6BT32 E	-	Stabilization failure, NBC (tank overpressure system non operational)
6BT33 E	-	Laser range finder failure, NBC (tank overpressure system non operational)

NOTE

I/O must also brief the following malfunctions and special conditions as they occur during this exercise:

Group VIB Training Exercise 3 (6BT3 E)
Tank Table VIII B, Task 3

"GAS, GAS, GAS!" You have < state malfunction / Special Conditions >. It is
2400 Local. Enemy Recon reported in your sector, bound to Phase Line Red, engage
and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time *	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
6BT31 E	M	1 BMP (S) 1 RPG TM	400-600	Frontal	:50	1 Rd HEAT-T 50 Rds 7.62	TIS	--	NBC	2400
6BT32 E	M (Short Halt)	1 BMP (S) 1 RPG TM	400-600	Frontal	:50	1 Rd HEAT-T 50 Rds 7.62	TIS	Stabilization Failure	NBC	2400
6BT33 E	M	1 BMP (S) 1 RPG TM	400-600	Frontal	:50	1 Rd HEAT-T 50 Rds 7.62	TIS	LRF Failure	NBC	2400

Group VIB Training Exercise 4 (6BT4 D)
Tank Table VIII B, Task 4

NOTE

I/O must also brief the following malfunctions and special conditions as they occur during this exercise:

Task		Malfunction/Special Condition
6BT41 D	-	None
6BT42 D	-	Stabilization failure
6BT43 D	-	Laser range finder failure
6BT44 D	-	NBC (tank overpressure system non operational)

Group VIB Training Exercise 4 (6BT4 D)
Tank Table VIII B, Task 4

"You have < state malfunction / Special Conditions >. It is 2400 Local.
Enemy Armor reported in your sector, Bound to Phase Line White,
engage and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time *	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
6BT41 D	M	1 T-72 (S) 1 T-72 (M)	1300-1500 1300-1500	Frontal Flank	:50	3 Rds APFSDS-T	TIS	--	--	2400
6BT42 D	M (Short Halt)	1 T-72 (S) 1 T-72 (M)	1300-1500 1300-1500	Frontal Flank	:50	3 Rds APFSDS-T	TIS	Stabilization Failure	--	2400
6BT43 D	M	1 T-72 (S) 1 T-72 (M)	1300-1500 1300-1500	Frontal Flank	:50	3 Rds APFSDS-T	TIS	LRF Failure	--	2400
6BT44 D	M	1 T-72 (S) 1 T-72 (M)	1300-1500 1300-1500	Frontal Flank	:50	3 Rds APFSDS-T	TIS	--	NBC	2400

Group VIB Training Exercise 5 (6BT5 E)
Tank Table VIII B, Task 5A

NOTE

I/O must also brief the following malfunctions and special conditions as they occur during this exercise:

Task	Malfunction/Special Condition
6BT51 E -	None
6BT52 E -	Stabilization failure
6BT53 E -	Laser range finder failure
6BT54 E -	NBC (tank overpressure system non operational)

Group VIB Training Exercise 5 (6BT5 E)
Tank Table VIII B, Task 5A

"You have < state malfunction / Special Conditions >. It is 2400 Local.
Enemy Armor reported in your sector, Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time *	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
6BT51 E	S	1 T-72 (M)	1700-1900	Flank	:40	2 Rds APFSDS-T	TIS	--	--	2400
6BT52 E	S	1 T-72 (M)	1700-1900	Flank	:40	2 Rds APFSDS-T	TIS	Stabilization Failure	--	2400
6BT53 E	S	1 T-72 (M)	1200-1400	Flank	:40	2 Rds APFSDS-T	TIS	LRF Failure	--	2400
6BT54 E	S	1 T-72 (M)	1700-1900	Flank	:40	2 Rds APFSDS-T	TIS	--	NBC	2400

GROUP VIA EVALUATION EXERCISE
TANK TABLE VIII A
STATIONARY AND MOVING OWN TANK -- STATIONARY AND MOVING TARGETS

TASK 6AE11

Tank Table VIII A, Task 1

"<Bumper number> this is C92, your tank has a ballistic computer and
laser range finder failure. Battlecarry SABOT. Ready report, over."

"This is C92, enemy armor reported in your sector, Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
6AE11 E/D	S	1 T-72 (M) 1 T-72 (S)	900-1300 900-1300	Flank Frontal	:40	3 Rds APFSDS-T	GAS	Computer/ LRF Failure	--	1200

[European] "This is C92, drive between the rock walls and follow the dirt road. Move to and occupy
Bravo Papa 2,over the ridge to your front on the left side of the dirt road, and report when set.
Your tank will be fully operational when you occupy Bravo Papa 2, out."

[Desert] "This is C92, follow the dirt road to your front. At the "Y" intersection, bear left and go beyond the rock walls.
Stay on the dirt road. Move to and occupy Bravo Papa 2, over the ridge to your front on the left side of the dirt road,
and report when set. Your tank will be fully operational when you occupy Bravo Papa 2, out."

TASK 6AE12

Tank Table VIII A, Task 3

"<Bumper number> this is C92. Battlecarry HEAT. Ready report, over."

This is C92, suspected Troop activity in your sector, bound to
Phase Line Red, Engage and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
6AE12 E/D	M	Troops (S) Troops (S)	400- 600 700- 900	Frontal Frontal	:50	200 Rds 7.62	GPS/ TIS	--	--	1200

[European] "This is C92, follow the dirt road to the intersection. Continue straight on the paved road and drive between the rock walls. Move to and occupy Bravo Papa 3, on the left of the paved road, and report when set, out."

[Desert] "This is C92, follow the dirt road. At the "Y" intersection, bear right and go between the rock walls. Move to and occupy Bravo Papa 3, just over the ridge to your front, and report when set, out."

TASK 6AE13

Tank Table VIII A, Task 4

"<Bumper number> this is C92, Battlecarry SABOT.
GAS, GAS, GAS. Ready report, over."

"This is C92, enemy armor in your sector,
Bound to Phase Line White, Engage and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
6AE13 E/D	M	2 T-72s (S)	1400-1600	Frontal Frontal	:50	3 Rds APFSDS-T	GPS/ TIS	--	NBC	1200

"This is C92, all clear, I say again, all clear. I authenticate AB. Out."

[European] "This is C92, follow the paved road. Drive between the rock walls, staying between the two paved roads.
Move to and occupy Bravo Papa 4, between the two paved roads, and report when set, out."

[Desert] "This is C92, follow the dirt road to the intersection. Go straight through the intersection and
follow the paved road. Drive between both sets of rock walls. Move to and occupy Bravo Papa 4,
to your left between the two paved roads, and report when set, out."
[Note to I/O: This is a long drive.]

TASK 6AE14

Tank Table VIII A, Task 5

"<Bumper number> this is C92. Battlecarry SABOT. Ready report, over."

"This is C92, enemy armor in your sector, bound to
Phase Line Blue, Engage and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
6AE14 E/D	M	2 T-72s (M)	1400-1600	Flank Flank	:50	3 Rds APFSDS-T	GPS/ TIS	--	--	1200

"This is C92, follow the left paved road. Drive between the rock walls.
Move to and occupy Bravo Papa 5, on the right of the paved road, and report when set, out."

TASK 6AE15

Tank Table VIII A, Task 5A

"<Bumper number> this is C92. Battlecarry SABOT. Ready report, over."

"This is C92, enemy armor in your sector, bound to
Phase Line Green, Engage and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
6AE15 E/D	M	1 T-72 (S) 1 T-72 (M)	1400-1600	Frontal Flank	:50	3 Rds APFSDS-T	GPS/ TIS	--	--	1200

"This is C92, this concludes your Day Phase, Clear and Elevate, move to
Debrief area for AAR."

GROUP VIB EVALUATION EXERCISE
TANK TABLE VIII B
STATIONARY AND MOVING OWN TANK -- STATIONARY AND MOVING TARGETS

TASK 6BE11

Tank Table VIII B, Task 1

"<Bumper number> this is C92, your Loader has been killed; dismount him to
the rear of the tank. Battlecarry SABOT. Ready report, over.

"This is C92, enemy armor in your sector,
Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
6BE11 E/D	S	1 T-72 (S)	1400-1600	Frontal	:40	2 Rds APFSDS-T	TIS	--	3 Man Crew	2400

[European] "This is C92, remount your loader, and follow the paved road between the rock walls.
Move to and occupy Bravo Papa 2, on the left side of the road, and report when set, out."

[Desert] "This is C92, remount your loader and follow the paved road to your front. Drive between the rock walls.
Move to and occupy Bravo Papa 2, between the paved road and the dirt road just beyond the "Y" intersection,
and report when set, out."

TASK 6BE12

Tank Table VIII B, Task 3

"<Bumper number> this is C92. Battlecarry HEAT.
Ready report, over."

"This is C92, enemy recon in your sector,
Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
6BE12 E/D	S	2 BMPs (S)	1200-1400	Frontal Frontal	:40	3 Rds HEAT-T	TIS	--	--	2400

[European] "This is C92, follow the paved road and drive between the rock walls. At the "T" intersection, make a right.
Move to and occupy Bravo Papa 3, to the left of the road, and report when set, out."

[Desert] "This is C92, follow the left paved road and drive between the rock walls. Move to and occupy Bravo Papa 3,
to the left of the paved road, and report when set, out."

TASK 6BE13

Tank Table VIII B, Task 4

"<Bumper number> this is C92, Battlecarry HEAT.
GAS, GAS, GAS. Ready report, over."

"This is C92, enemy recon with dismounts in your sector,
bound to Phase Line Red, Engage and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
6BE13 E/D	M	1 BMP (S) 1 RPG TM	400- 600 400- 600	Frontal	:50	1 Rd HEAT-T/ 50 Rds 7.62	TIS	--	NBC	2400

" This is C92, all clear, I say again, all clear. I authenticate AB. Out."

[European] "This is C92, follow the paved road and drive between the rock walls. Move to and occupy Bravo Papa 4,
on the right side of the road, and report when set, out."

[Desert] "This is C92, drive toward the mountain that is visible from the berm. Just over the ridge,
you will see the paved road and rock walls. Make a left onto the paved road and drive between the rock walls.
Move to and occupy Bravo Papa 4, on the right just beyond the paved-road intersection,
and report when set, out."

TASK 6BE14

Tank Table VIII B, Task 5

"<Bumper number> this is C92. Battlecarry SABOT.
Ready report, over."

"This is C92, enemy armor in your sector, bound to
Phase Line White, Engage and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
6BE14 E/D	M	1 T-72 (S) 1 T-72 (M)	1300-1500 1300-1500	Frontal Flank	:50	3 Rds APFSDS-T	TIS	--	--	2400

[European] "This is C92, follow the left paved road and drive between the rock walls. Move to and occupy
Bravo Papa 5, on the left side of the road, and report when set, out."

[Desert] "This is C92, disregard all roads. Move to and occupy Bravo Papa 5, just beyond the
rock walls to the left of the targets, and report when set, out."

TASK 6BE15

Tank Table VIII B, Task 5A

"<Bumper number> this is C92. Battlecarry SABOT.
Ready report, over."

"This is C92, enemy armor in your sector,
Defend and report, Out."

Exer No.	O/T Activity	Targets/ Activity	Ranges	Target Exposure	Time	Ammo	Sight	O/T Malfunction	Special Conditions	Time of Day
6BE15 E/D	S	1 T-72 (M)	1700-1900	Flank	:40	2 Rds APFSDS-T	TIS	--	--	2400

"This is C92, this concludes your Night Phase, Clear and Elevate, move to
Debrief area for AAR."

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ALPHABETICAL LIST OF FIGURES